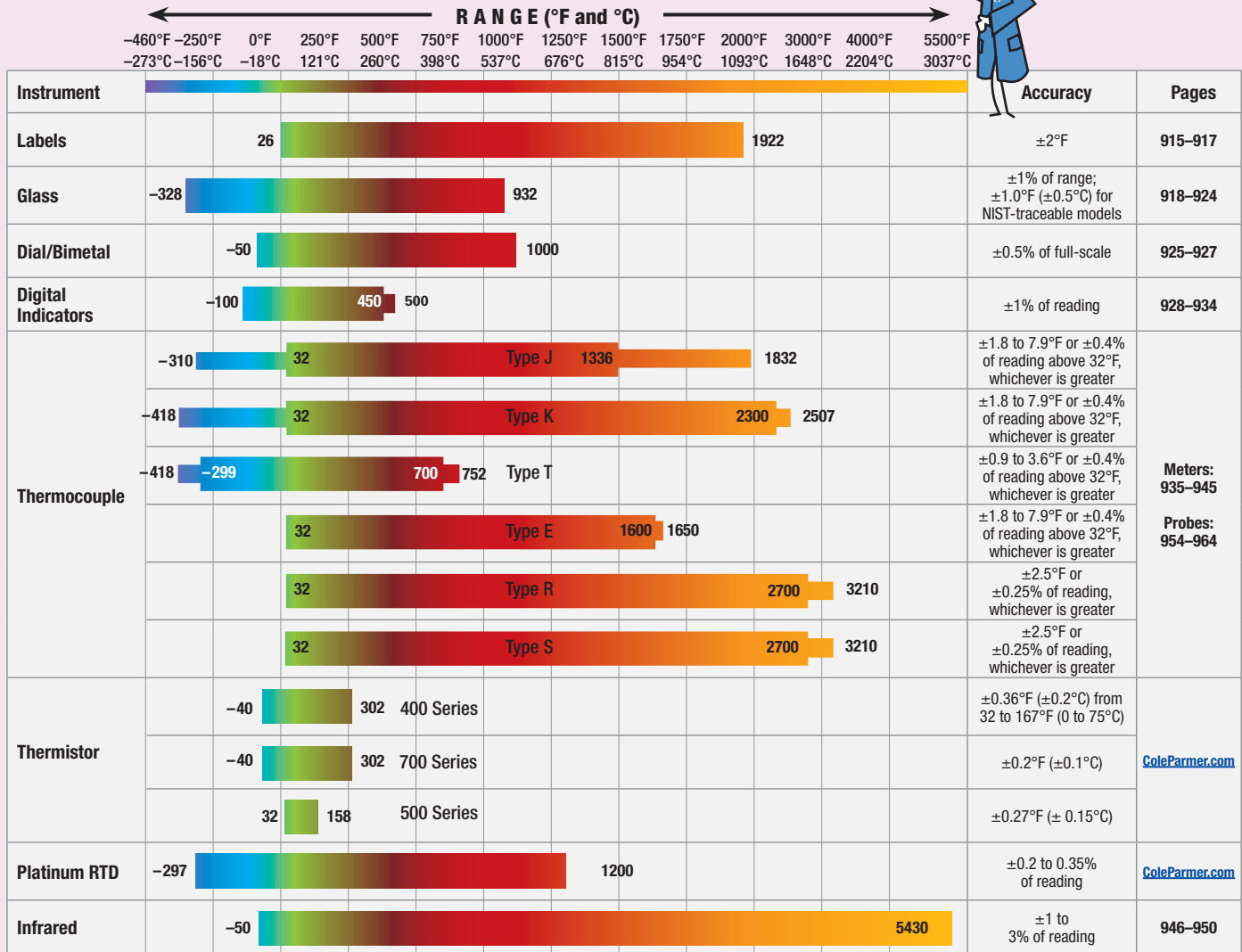


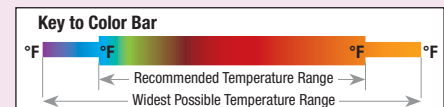
# Select the Right Thermometer



## A Guide To Temperature Instruments



The stated accuracy of any temperature measurement device is for the "Recommended Temperature Range" only. The narrow section of the temperature bar represents the widest range the instrument can be used in. Accuracy in this range is not guaranteed. Probe damage may occur at extreme ends of the temperature range. Temperatures listed are approximate.



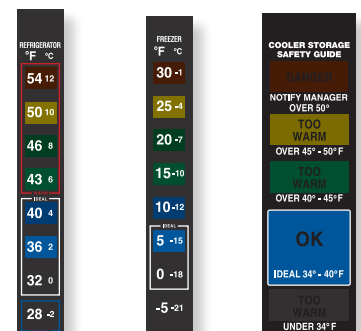
## Reusable Low-Temperature Indicating Strips

### Easily keep track of temperature

- Nontoxic, nonhazardous temperature-measuring alternative

These self-adhesive reusable temperature labels provide a safe, accurate, easy-to-read means for monitoring low temperatures. Indicating strips use liquid crystal technology to display the current temperature range at an economical cost. Shelf life: one year after date of purchase.

Indicator description	Number of temperature points	Temperature range	Dimensions (W x H)		Catalog number	Price/pk of 10
			in.	mm		
Refrigerator	8	28 to 54°F (-2 to -12°C)	1 x 5½	25 x 140	GY-90308-80	
Freezer	8	-5 to 30°F (-21 to -1°C)	1 x 5½	25 x 140	GY-90308-85	
Cooler	4	34 to 50°F (1 to 10°C)	1½ x 5%	38 x 136	GY-90308-90	



## Temperature

### Reusable Temperature-Indicating Strips

#### Get quick temperature readings

- Nontoxic, nonhazardous temperature-measuring alternative
- Easy to read and unbreakable

These self-adhesive, reusable temperature labels provide a safe, accurate, easy-to-read means for monitoring temperatures. Indicating strips use liquid crystal technology to display the current temperature at an economical cost. The strip turns green when ambient temperature is reached. Shelf life: one year after date of purchase.



A



B



C

Temperature points	Dimensions (W x H)		Qty/pk	Catalog number	Price/pk
	in.	mm			
<b>A. Seven-point horizontal thermometers with adhesive backing</b>					
-22 to 32°F (-30 to 0°C)	1¼ x ½	44 x 13	25	GY-90308-20	
32 to 86°F (0 to 30°C)					
86 to 140°F (30 to 60°C)					
140 to 194°F (60 to 90°C)	1¼ x ½	44 x 13	25	GY-90308-30	
194 to 248°F (90 to 120°C)					
<b>B. Forty-eight-point vertical thermometer with magnetic backing</b>					
26 to 120°F (-3 to 49°C)	1½ x 5	38 x 127	10	GY-08078-48	
<b>C. Sixteen-point vertical thermometers with adhesive backing</b>					
26 to 56°F (-3 to 13°C)	½ x 5	13 x 127	25	GY-90316-00	
58 to 88°F (14 to 31°C)					
90 to 120°F (32 to 49°C)					
122 to 152°F (50 to 66°C)	½ x 5	13 x 127	25	GY-90316-04	
154 to 184°F (68 to 83°C)					

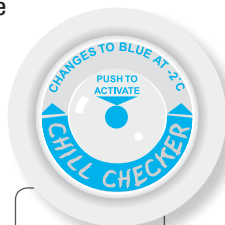
### Irreversible Low-Temperature Indicators

#### Ensure product safety

- Use as a quick inspection tool that the product is in usable condition during the shipping and receiving process
- Save time and money due to costly recalls
- Self-adhesive design attaches anywhere



Descending label 90309-60 (activated)



Ascending label 90308-00 (unactivated)

Labels clearly indicate when the product to which it is attached to has been subjected to harsh temperatures, which could have detrimental effects on refrigerated products. Available in both ascending and descending style. Accuracy is ±1°C of the rated temperature. Shelf life: one year after date of purchase.

Temperature point	Dimensions		Catalog number	Price/pk of 10
	in.	mm		
<b>Ascending labels</b>				
28°F (-2°C)	1¼ dia	32	GY-90308-00	
41°F (5°C)				
<b>Descending labels</b>				
32°F (0°C)	1¾ L x 1¼ W x ¼ H	35 L x 17 W x 6 H	GY-90309-60	
36°F (2°C)				

### Irreversible Waterproof Disinfection Labels

#### Reduce the risk of contamination

- Provide proof of HACCP compliance that sanitizing temperature has been reached during dishwashing
- Waterproof—designed to withstand the rigors of a full wash



ThermoStrip labels are self-adhering and waterproof color-changing labels that measure the surface temperature of dishware in dishwashing machines. Label indicator will turn from white to black when surface temperature reaches rated temperature.

Remove and retain label as a permanent record of temperature attained as an excellent evidence-base for HACCP. Accuracy is ±1.8°F (±1°C). Shelf life: one year after date of purchase.

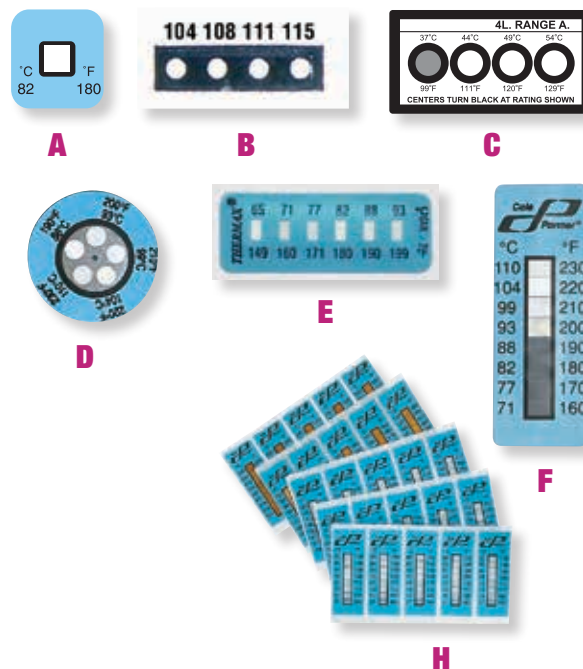
Temperature points	Dimensions		Catalog number	Qty/pk	Price/pk
	in.	mm			
<b>Single temperature point</b>					
140°F (60°C)	½ x 1¼	13 x 44 mm	GY-90308-13	25	
160°F (71°C)	½ x 1¼	13 x 44 mm	GY-90308-14	25	
170°F (76.5°C)	½ x 1¼	13 x 44 mm	GY-90308-16	25	
180°F (82°C)	½ x 1¼	13 x 44 mm	GY-90308-17	25	
<b>Three temperature points</b>					
150, 160, 170°F (65.5, 71, 76.5°C)	½ x 1¼	13 x 44 mm	GY-90308-11	16	
160, 170, 180°F (71, 76.5, 82°C)	½ x 1¼	13 x 44 mm	GY-90308-12	16	

# Irreversible High-Temperature Labels

## Save time and money due to costly recalls

- Used as a quick inspection tool that the product is in usable condition during the shipping and receiving process
- Self-adhesive design

Labels are made up of a series of temperature-sensitive elements sealed between heat-resistant substrates with transparent windows. Each element changes color distinctly as its rated temperature is met or exceeded. The changes to the label are irreversible, providing a temperature history of the surface being monitored. The labels will not delaminate when removed, allowing them to be attached to an inspection report to serve as a permanent record. Ideal for use in the food, automotive, molding and metal working industries. Accuracy is ±1°C from 29 to 99°C, ±1.5°C from 100 to 154°C, and ±1% + 1°C from 160 to 280°C. Shelf life: one year after date of purchase.



### A. One-Temperature Point—Square Labels

Temperature point		Dimensions (W x H)		Catalog number	Price/ pk of 50
°F	°C	in.	mm		
84	29	½ x ½	13 x 13	<a href="#">GY-08068-31†</a>	
93	34			<a href="#">GY-08068-32†</a>	
99	37	½ x ½	13 x 13	<a href="#">GY-08068-33†</a>	
104	40			<a href="#">GY-08068-34†</a>	
108	42	½ x ½	13 x 13	<a href="#">GY-08068-35†</a>	
111	44			<a href="#">GY-08068-36†</a>	
115	46	½ x ½	13 x 13	<a href="#">GY-90309-00†</a>	
140	60			<a href="#">GY-90309-05</a>	
160	71	½ x ½	13 x 13	<a href="#">GY-90309-10</a>	
171	77			<a href="#">GY-90309-15</a>	
180	82	½ x ½	13 x 13	<a href="#">GY-90309-20</a>	
190	88			<a href="#">GY-90309-25</a>	
210	99	½ x ½	13 x 13	<a href="#">GY-90309-30</a>	
230	110			<a href="#">GY-90309-35</a>	
250	121	½ x ½	13 x 13	<a href="#">GY-90309-40</a>	
261	127			<a href="#">GY-90309-45</a>	
320	160	½ x ½	13 x 13	<a href="#">GY-90309-50</a>	

### B. Four-Temperature Points—Micro Horizontal Labels

Temperature points	Dimensions (W x H)		Catalog number	Price/ pk of 10
	in.	mm		
104, 108, 111, 115°F	½ x ½	4 x 13	<a href="#">GY-08068-41†</a>	
120, 129, 140, 149°F			<a href="#">GY-08068-42†</a>	
160, 171, 180, 190°F	½ x ½	4 x 13	<a href="#">GY-08068-43</a>	
199, 210, 219, 230°F			<a href="#">GY-08068-44</a>	
241, 250, 261, 270°F	½ x ½	4 x 13	<a href="#">GY-08068-45</a>	
280, 289, 300, 309°F			<a href="#">GY-08068-46</a>	
320, 331, 340, 351°F	½ x ½	4 x 13	<a href="#">GY-08068-47</a>	

### C. Four-Temperature Points—Horizontal Labels

Temperature points		Dimensions (W x H)		Catalog number	Price/ pk of 10
°F	°C	in.	mm		
99, 111, 120, 129	37, 44, 49, 54	¾ x 1¼	22 x 44	<a href="#">GY-90308-40†</a>	
140, 149, 160, 171	60, 65, 71, 77			<a href="#">GY-90308-45</a>	
180, 190, 199, 210	82, 88, 93, 99	¾ x 1¼	22 x 44	<a href="#">GY-90308-50</a>	
219, 230, 241, 250	104, 110, 116, 121			<a href="#">GY-90308-55</a>	
261, 270, 280, 289	127, 132, 138, 143	¾ x 1¼	22 x 44	<a href="#">GY-90308-60</a>	
300, 309, 320, 331	149, 154, 160, 166			<a href="#">GY-90308-65</a>	
340, 351, 361, 370	171, 177, 182, 188	¾ x 1¼	22 x 44	<a href="#">GY-90308-70</a>	
379, 390, 399, 410	193, 199, 204, 210			<a href="#">GY-90308-75</a>	

### D. Five-Temperature Points—Round Labels

Temperature points		Dimension (dia)	Catalog number	Price/ pk of 25
°F	°C			
105, 110, 115, 120, 130	40, 43, 46, 49, 54	¾	16	<a href="#">GY-90303-20†</a>
140, 150, 160, 170, 180	60, 65, 71, 77, 82			<a href="#">GY-90303-22</a>
190, 200, 210, 220, 230	88, 93, 99, 104, 110			<a href="#">GY-90303-24</a>
240, 250, 260, 270, 280	116, 121, 127, 132, 138	¾	16	<a href="#">GY-90303-26</a>
290, 300, 310, 320, 330	143, 149, 154, 160, 166			<a href="#">GY-90303-28</a>
340, 350, 360, 370, 380	171, 177, 182, 188, 193			<a href="#">GY-90303-30</a>
390, 399, 410, 421, 435	199, 204, 210, 216, 224	¾	16	<a href="#">GY-08068-21</a>
450, 466, 480, 489, 500	232, 241, 249, 254, 260			<a href="#">GY-08068-23</a>

### E. Six-Temperature Points—Horizontal Labels

Temperature points		Dimensions (W x H)		Catalog number	Price/ pk of 10
°F	°C	in.	mm		
84, 91, 93, 99, 104, 108	29, 33, 34, 37, 40, 42	½ x 1¼	13 x 32	<a href="#">GY-90308-91†</a>	
111, 115, 120, 129, 140, 144	44, 46, 49, 54, 60, 62	½ x 1¼	13 x 32	<a href="#">GY-90308-92†</a>	
149, 160, 171, 180, 190, 199	65, 71, 77, 82, 88, 93	½ x 1¼	13 x 32	<a href="#">GY-90308-93</a>	
210, 219, 230, 241, 250, 261	99, 104, 110, 116, 121, 127	½ x 1¼	13 x 32	<a href="#">GY-90308-94</a>	
270, 280, 289, 300, 309, 320	132, 138, 143, 149, 154, 160	½ x 1¼	13 x 32	<a href="#">GY-90308-95</a>	
331, 340, 351, 360, 370, 379	166, 171, 177, 182, 188, 193	½ x 1¼	13 x 32	<a href="#">GY-90308-96</a>	
390, 399, 410, 421, 435, 450	199, 204, 210, 216, 224, 232	½ x 1¼	13 x 32	<a href="#">GY-90308-97</a>	
460, 480, 489, 500, 536, 554	240, 249, 254, 260, 280, 290	½ x 1¼	13 x 32	<a href="#">GY-90308-98</a>	

### F-H. Eight- and Nine-Temperature Points—Vertical Labels

Temperature points	Dimensions (W x H)		Catalog number	Price/ pk of 25
	in.	mm		
<b>F. Eight-point</b>				
100, 105, 110, 115, 120, 130, 140, 150°F (37, 40, 43, 46, 49, 54, 60, 65°C)	¾ x 2	19 x 51	<a href="#">GY-08068-20†</a>	
160, 170, 180, 190, 200, 210, 220, 230°F (71, 77, 82, 88, 93, 99, 104, 110°C)	¾ x 2	19 x 51	<a href="#">GY-08068-22</a>	
240, 250, 260, 270, 280, 290, 300, 310°F (116, 121, 127, 132, 138, 143, 149, 154°C)	¾ x 2	19 x 51	<a href="#">GY-08068-24</a>	
320, 330, 340, 350, 360, 370, 380, 390°F (160, 166, 171, 177, 182, 188, 193, 199°C)	¾ x 2	19 x 51	<a href="#">GY-08068-26</a>	
<b>G. Nine-point (not shown)</b>				
400, 410, 420, 435, 450, 465, 480, 490, 500°F (204, 210, 216, 224, 232, 240, 249, 254, 260°C)	¾ x 2	19 x 51	<a href="#">GY-08068-28</a>	
<b>H. Eight- and nine-point label kit</b>				
Contains five labels of each of the five types of indicators shown in the table above			<a href="#">GY-08068-90†</a>	

†Note: Express shipping by air is required to prevent activation while in transit.

# Digi-Sense® Red Spirit Glass Thermometers

## Eliminate hazardous mercury from your process

- Graduations won't rub off
- Easy read design—red spirit fill against white background
- Individually serialized for better record keeping

**General-Purpose Thermometers** are ideal for use in laboratory, biology, chemistry, university, photographic, food/beverage, petrochemical, automotive, wastewater, and many other general-purpose applications.

**Incubator Thermometers** are designed with a swell in the glass to hold the thermometer in place.

**Dry Block Thermometers** are ideal for use in all standard heating blocks and water baths. Most have arrows indicating critical temperatures.

**Refrigerator Thermometers** indicate critical temperature ranges used in refrigerators, with 4°C and 6°C marked with arrows.

**Ultralow-Temperature Thermometers** are filled with an organic liquid (toluene or pentane) that meets all requirements for physical dimensions and accuracy of ANSI/SAMA Z236.1-1983.

**Oven Thermometers** are designed for high-temperature applications and feature a round glass swell to hold the thermometer in place.



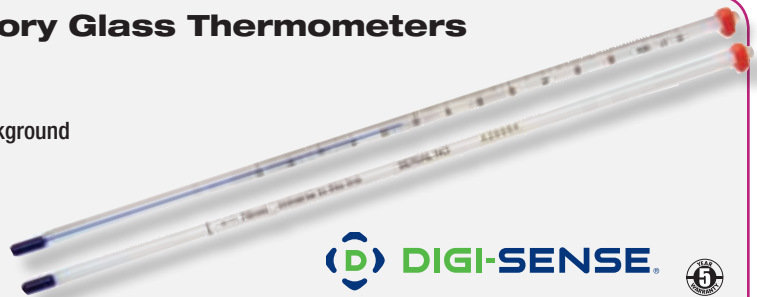
Temperature range	Scale divisions	Accuracy	Length	Partial immersion			Total immersion	
				Catalog number	Immersion depth	Price	Catalog number	Price
<b>General purpose thermometers (Red Spirit)</b>								
-35 to 50°C	1°	±1.5°	300 mm	<a href="#">GY-08008-11</a>	76 mm	—	<a href="#">GY-08008-19</a>	—
-20 to 110°C	1°	1.5°, 2° above 100°C	300 mm	<a href="#">GY-08008-12</a>	76 mm	—	<a href="#">GY-08008-20</a>	—
-20 to 150°C	1°	1.5°, 2° above 100°C	300 mm	<a href="#">GY-08008-13</a>	76 mm	—	<a href="#">GY-08008-21</a>	—
-40 to 120°F	2°	3°, 6° below -31°F	300 mm	<a href="#">GY-08008-14</a>	76 mm	—	<a href="#">GY-08008-22</a>	—
0 to 230°F	2°	3°, 4° above 212°F	300 mm	<a href="#">GY-08008-15</a>	76 mm	—	<a href="#">GY-08008-23</a>	—
0 to 300°F	2°	3°, 4° above 212°F	300 mm	<a href="#">GY-08008-16</a>	76 mm	—	<a href="#">GY-08008-24</a>	—
<b>Incubator thermometers (Red Spirit)</b>								
18 to 60°C	0.5°	±0.5°C	125 mm	<a href="#">GY-08006-09†</a> ##	35 mm	—	—	—
50 to 110°C	0.5°	±0.5°C	150 mm	<a href="#">GY-08006-12†</a> ##+++	35 mm	—	—	—
0 to 100°C	1°	±1°	225 mm	<a href="#">GY-08006-13†</a> ###	35 mm	—	—	—
<b>Dry block thermometers (Red Spirit)</b>								
-15 to 105°C	1°	±1°C	150 mm	—	—	—	<a href="#">GY-08006-14†</a>	—
0 to 100°C	1°	±1°C	225 mm	<a href="#">GY-08006-16††</a>	35 mm	—	—	—
0 to 100°C	1°	±1°C	225 mm	<a href="#">GY-08006-13††</a>	35 mm	—	—	—
0 to 100°C	1°	±1°C	225 mm	<a href="#">GY-90300-07†</a>	35 mm	—	—	—
0 to 80°C	0.5°	±0.5°C	225 mm	<a href="#">GY-08006-18††</a> ##	100 mm	—	—	—
0 to 80°C	0.5°	±0.5°C	225 mm	<a href="#">GY-08006-19†</a> ##	100 mm	—	—	—
20 to 100°C	1°	±1°C	300 mm	<a href="#">GY-08006-21†</a> ##††	76 mm	—	—	—
20 to 100°C	1°	±1°C	300 mm	<a href="#">GY-08006-23†</a> ††##	76 mm	—	—	—
0 to 70°C	1°	±1°C	300 mm	<a href="#">GY-08006-24††</a> ##	150 mm	—	—	—
0 to 70°C	1°	±1°C	300 mm	<a href="#">GY-08006-25†</a> ††##	150 mm	—	—	—
0 to 70°C	1°	±1°C	300 mm	<a href="#">GY-08006-26†</a> ††##	150 mm	—	—	—
0 to 70°C	1°	±1°C	300 mm	<a href="#">GY-08006-27†</a> †##	150 mm	—	—	—
25, 37, 56°C	0.5°	±0.5°C	240 mm	<a href="#">GY-08006-28†</a> ##	76 mm	—	—	—
<b>Refrigerator thermometers (Red Spirit)</b>								
-5 to 20°C	1°	±1°	152 mm	—	—	—	<a href="#">GY-08006-29</a>	—
-5 to 20°C	1°	±1°	152 mm	—	—	—	<a href="#">GY-08006-31†</a>	—
<b>Ultra low-temperature thermometers (Blue Spirit)</b>								
-200 to 30°C	2°	±3°, 6°C below -35°C	300 mm	—	—	—	<a href="#">GY-90300-27</a>	—
-100 to 50°C	1°	1.5°, 3° below -35°C	350 mm	<a href="#">GY-90300-25</a>	76 mm	—	<a href="#">GY-90300-28</a>	—
-50 to 50°C	2°	±3°, 6°C below -35°C	300 mm	<a href="#">GY-90300-24</a>	76 mm	—	<a href="#">GY-90300-26</a>	—
<b>Oven thermometers (partial immersion models have swell)</b>								
20 to 130°C	2°	4°, 5° above	135 mm	—	—	—	<a href="#">GY-08006-43</a>	—
20 to 130°C	2°	4°, 5° above	135 mm	—	—	—	<a href="#">GY-08006-45†</a>	—
35 to 200°C	1°	2°C, 2.5° above 100°C	180 mm	—	—	—	<a href="#">GY-08006-47</a>	—
35 to 200°C	1°	2°C, 2.5° above 100°C	180 mm	—	—	—	<a href="#">GY-08006-49†</a>	—
0 to 200°C	1°	2°C, 2.5° above 100°C	280 mm	<a href="#">GY-08006-55</a> ##	76 mm	—	—	—
0 to 200°C	1°	2°C, 2.5° above 100°C	280 mm	<a href="#">GY-08006-56†</a> ##	76 mm	—	—	—
0 to 200°C	1°	2°C, 2.5° above 100°C	405 mm	<a href="#">GY-08006-57</a> ##	125 mm	—	—	—
0 to 200°C	1°	2°C, 2.5° above 100°C	405 mm	<a href="#">GY-08006-58†</a> ##	125 mm	—	—	—

†PFA coated. †Arrows at 25, 30, 37 and 56°C. ††Arrows at 37 and 56°C. ## Swell +++Blue Spirit †††Yellow backing

## Digi-Sense® Blue Spirit Laboratory Glass Thermometers

### Scales won't wear off

- Easy-to-read, nonmercury blue spirit liquid against white background
- Statement of accuracy included
- Get more precision with fractional-degree thermometers
- Keep better records with individually serialized thermometers



Temperature range	Scale divisions	Accuracy	Length	Partial immersion			Total immersion	
				Catalog number	Immersion depth	Price	Catalog number	Price
<b>Celsius-scale thermometers, standard accuracy</b>								
-10 to 110°C	2°	3°, 4° above 100°C	200 mm	<a href="#">GY-90260-00</a>	50 mm		<a href="#">GY-90260-17</a>	
-10 to 150°C	2°	3°, 4° above 100°C	200 mm	<a href="#">GY-90260-01</a>	50 mm		<a href="#">GY-90260-18</a>	
-200 to 30°C	2°	±3°, 6°C below -35°C	350 mm	—	—	—	<a href="#">GY-90300-27</a>	
-100 to 50°C	1°	1.5°, 3° below -35°C	300 mm	<a href="#">GY-90300-25</a>	76 mm		<a href="#">GY-90300-28</a>	
-50 to 50°C	2°	±3°, 6°C below -35°C	300 mm	<a href="#">GY-90300-24</a>	76 mm		<a href="#">GY-90300-26</a>	
-35 to 50°C	1°	1.5°, 2° above 100°C	300 mm	<a href="#">GY-90260-02</a>	76 mm		—	—
-20 to 110°C	1°	1.5°, 2° above 100°C	300 mm	<a href="#">GY-90260-03</a>	76 mm		<a href="#">GY-90260-20</a>	
-20 to 150°C	1°	±1.5°; ±2° above 110°C	300 mm	<a href="#">GY-90260-04</a>	76 mm		<a href="#">GY-90260-21</a>	
-10 to 225°C	2°	4°, 5° above 100°C, 6° above 200°C	350 mm	—	—	—	<a href="#">GY-90260-22</a>	
-10 to 260°C	2°	4°, 5° above 100°C, 6° above 200°C	350 mm	<a href="#">GY-90260-05</a>	76 mm		—	—
<b>Celsius-scale fractional-degree thermometers, precision accuracy</b>								
-1 to 51°C	0.1°	Partial ±0.1°	460 mm	<a href="#">GY-90260-07</a>	76 mm		<a href="#">GY-90260-23</a>	
-1 to 101°C	0.1°	Total ±0.3°	610 mm	<a href="#">GY-90260-08</a>	76 mm		<a href="#">GY-90260-24</a>	
-1 to 201°C	0.2°	Partial ±1°, 1.5° above 100°C Total ±0.7°, 1° above 100°C	610 mm	<a href="#">GY-90260-09</a>	76 mm		<a href="#">GY-90260-25</a>	
<b>Fahrenheit-scale thermometers, standard accuracy</b>								
-40 to 120°F	2°	3°, 6° below -31°F	300 mm	<a href="#">GY-90260-10</a>	76 mm		<a href="#">GY-90260-26</a>	
0 to 230°F	2°	3°, 4° above 212°F	300 mm	<a href="#">GY-90260-11</a>	76 mm		<a href="#">GY-90260-27</a>	
0 to 300°F	2°	3°, 4° above 212°F	300 mm	<a href="#">GY-90260-12</a>	76 mm		<a href="#">GY-90260-28</a>	
20 to 440°F	2°	4°; 5° above 212°F, 6° above 212°F	350 mm	—	—	—	<a href="#">GY-90260-29</a>	
20 to 500°F	2°	±4°; ±5° above 230°F, 6° above 392°F	350 mm	<a href="#">GY-90260-13</a>	76 mm		—	—
<b>Fahrenheit-scale fractional-degree thermometers, precision accuracy</b>								
30 to 124°F	0.2°	±2°	460 mm	<a href="#">GY-90260-14</a>	76 mm		<a href="#">GY-90260-30</a>	
30 to 214°F	0.2°	±2°	610 mm	<a href="#">GY-90260-15</a>	76 mm		<a href="#">GY-90260-31</a>	
30 to 394°F	0.5°	±2°; ±3° above 212°F	610 mm	<a href="#">GY-90260-16</a>	76 mm		<a href="#">GY-90260-32</a>	

## Digi-Sense® Blue Spirit Armored Glass Thermometers

### Armor shell absorbs shock and prevents thermometer damage

- Get better readings with nonmercury blue spirit liquid against white background
- Statement of accuracy included

Nickel-plated brass armor shell protects these thermometers from accidental breakage during use and storage. The armor case has a screw cap with ring top and viewing window; the lower section that surrounds the bulb has small openings for circulation.

Thermometers are individually serial numbered and include a statement of accuracy supplied by manufacturer.



Temperature range	Scale divisions	Accuracy	Length	Partial immersion		
				Catalog number	Immersion depth	Price
<b>Celsius-scale thermometers</b>						
-35 to 50°C	1°	1.5°	300 mm	<a href="#">GY-08077-90</a>	76 mm	
-20 to 110°C	1°	±1.5°	300 mm	<a href="#">GY-08077-91</a>	76 mm	
-20 to 150°C	1°	±1.5°, 2° above 110°C	300 mm	<a href="#">GY-08077-92</a>	76 mm	
0 to 205°C	1°	±2°, 2.5° above 110°C, 3° above 200°C	300 mm	<a href="#">GY-08077-93</a>	76 mm	
-10 to 260°C	1°	±2°, 2.5° above 110°C, 3° above 200°C and 3.5° above 230°C	405 mm	<a href="#">GY-08077-97</a>	76 mm	
<b>Fahrenheit-scale thermometers</b>						
-40 to 120°F	2°	3°	300 mm	<a href="#">GY-08077-94</a>	76 mm	
0 to 230°F	2°	3°, 4° above 212°F	300 mm	<a href="#">GY-08077-95</a>	76 mm	
0 to 300°F	2°	3°, 4° above 212°F	300 mm	<a href="#">GY-08077-96</a>	76 mm	
20 to 500°F	2°	4°, 5° above 212°F, 6° above 392°F, 7° above 446°F	350 mm	<a href="#">GY-08077-98</a>	76 mm	

# 1° Matters

Calibrate to ensure accuracy

NIST-traceable reports include test data.  
Test points measured across thermometer range.

Calibration points	Catalog number	Price
2 to 4	<a href="#">GY-17006-03</a>	
5 to 9	<a href="#">GY-17006-05</a>	
10 to 15	<a href="#">GY-17006-06</a>	

InnoCalSolutions.com **INNOCAL**  
INNOVATIVE CALIBRATION SOLUTIONS

**Digi-Sense® Blue Spirit ASTM Equivalent Glass Thermometers**

**Perform ASTM methods without the worry of mercury contamination**

These thermometers conform to ASTM E-1 specifications except for not being mercury filled. Thermometers feature permanently fused markings, blue spirit liquid, white back glass; are also individually serial numbered. Include a triangular-style antiroll fitting.



ASTM number	ASTM method	Temperature range	Scale divisions	Length	Immersion depth	Reference points	Catalog number	Price
1C	Partial immersion	-20 to 150°C	1°	322 mm	76 mm	—	<a href="#">GY-08009-01</a>	
1F	Partial immersion	0 to 302°F	2°	322 mm	76 mm	—	<a href="#">GY-08009-02</a>	
5C	Cloud and pour	-38 to 50°C	1°	231 mm	108 mm	—	<a href="#">GY-08009-03</a>	
5F	Cloud and pour	-36 to 120°F	2°	231 mm	108 mm	—	<a href="#">GY-08009-04</a>	
6C	Low cloud and pour	-80 to 20°C	1°	232 mm	76 mm	—	<a href="#">GY-08009-05</a>	
6F	Low cloud and pour	-112 to 70°F	2°	232 mm	76 mm	—	<a href="#">GY-08009-06</a>	
9C	Pensky-Martens low	-5 to 110°C	0.5°	287 mm	57 mm	—	<a href="#">GY-08009-07</a>	
9F	Pensky-Martens low	20 to 230°F	1°	287 mm	57 mm	—	<a href="#">GY-08009-08</a>	
12C	Density-wide range	-20 to 102°C	0.2°	420 mm	Total	—	<a href="#">GY-08009-09</a>	
12F	Density-wide range	-5 to 215°F	0.5°	420 mm	Total	—	<a href="#">GY-08009-10</a>	
14C	Wax melting point	38 to 82°C	0.1°	377 mm	79 mm	—	<a href="#">GY-08009-11</a>	
14F	Wax melting point	100 to 180°F	0.2°	377 mm	79 mm	—	<a href="#">GY-08009-12</a>	
15C	Low softening point	-2 to 80°C	0.2°	397 mm	Total	—	<a href="#">GY-08009-13</a>	
15F	Low softening point	32 to 180°F	0.5°	397 mm	Total	—	<a href="#">GY-08009-14</a>	
16C	High softening point	30 to 200°C	0.5°	397 mm	Total	—	<a href="#">GY-08009-15</a>	
16F	High softening point	85 to 392°F	1°	397 mm	Total	—	<a href="#">GY-08009-16</a>	
17C	Saybolt viscosity	19 to 27°C	0.1°	275 mm	Total	—	<a href="#">GY-08009-17</a>	
17F	Saybolt viscosity	66 to 80°F	0.2°	275 mm	Total	—	<a href="#">GY-08009-18</a>	
18C	Reid vapor pressure	34 to 42°C	0.1°	275 mm	Total	—	<a href="#">GY-08009-19</a>	
18F	Reid vapor pressure	94 to 108°F	0.2°	275 mm	Total	—	<a href="#">GY-08009-20</a>	
33C	Low aniline point	-38 to 42°C	0.2°	419 mm	50 mm	—	<a href="#">GY-08009-21</a>	
33F	Low aniline point	-36.5 to 107.5°F	0.5°	419 mm	50 mm	—	<a href="#">GY-08009-22</a>	
36C	Titer test	-2 to 68°C	0.2°	405 mm	45 mm	—	<a href="#">GY-08009-23</a>	
37C	Solvents distillation	-2 to 52°C	0.2°	395 mm	100 mm	—	<a href="#">GY-08009-24</a>	
38C	Solvents distillation	24 to 78°C	0.2°	395 mm	100 mm	—	<a href="#">GY-08009-25</a>	
39C	Solvents distillation	48 to 102°C	0.2°	395 mm	100 mm	—	<a href="#">GY-08009-26</a>	
40C	Solvents distillation	72 to 126°C	0.2°	395 mm	100 mm	—	<a href="#">GY-08009-27</a>	
49C	Stormer viscosity	20 to 70°C	0.2°	300 mm	65 mm	—	<a href="#">GY-08009-28</a>	
52C	Butadiene boiling point range	-10 to 5°C	0.1°	162 mm	Total	—	<a href="#">GY-08009-29</a>	
54C	Congealing point	20 to 100.6°C	0.2°	312 mm	Total	—	<a href="#">GY-08009-30</a>	
54F	Congealing point	68 to 213°F	0.5°	312 mm	Total	—	<a href="#">GY-08009-31</a>	
57C	Tag closed tester, low range	-20 to 50°C	0.5°	287 mm	57 mm	—	<a href="#">GY-08009-32</a>	
57F	Tag closed tester, low range	-4 to 122°F	1°	287 mm	57 mm	—	<a href="#">GY-08009-33</a>	
58C	Tank	-34 to 49°C	0.5°	303 mm	Total	—	<a href="#">GY-08009-34</a>	
62C	Precision general-purpose	-38 to 2°C	0.1°	379 mm	Total	-7, 0, 10, 20, 30°C	<a href="#">GY-08009-35</a>	
62F	Precision general-purpose	-36 to 35°F	0.2°	379 mm	Total	-35, -15, 0, 15, 32°F	<a href="#">GY-08009-36</a>	
63C	Precision general-purpose	-8 to 32°C	0.1°	379 mm	Total	-7, 0, 10, 20, 30°C	<a href="#">GY-08009-37</a>	
63F	Precision general-purpose	18 to 89°F	0.2°	379 mm	Total	20, 32, 50, 70, 88°F	<a href="#">GY-08009-38</a>	
82C	Fuel rating, engine	-15 to 105°C	1°	162 mm	30 mm	—	<a href="#">GY-08009-39</a>	
82F	Fuel rating, engine	0 to 220°F	2°	162 mm	30 mm	—	<a href="#">GY-08009-40</a>	
83C	Fuel rating, air	15 to 70°C	1°	171 mm	40 mm	—	<a href="#">GY-08009-41</a>	
83F	Fuel rating, air	60 to 160°F	1°	171 mm	40 mm	—	<a href="#">GY-08009-42</a>	
84C	Fuel rating, orifice tank	24 to 80°C	1°	382 mm	249 mm	—	<a href="#">GY-08009-43</a>	
84F	Fuel rating, orifice tank	75 to 175°F	2°	382 mm	249 mm	—	<a href="#">GY-08009-44</a>	
85C	Fuel rating, surge	40 to 150°C	1°	310 mm	181 mm	—	<a href="#">GY-08009-45</a>	
85F	Fuel rating, surge	100 to 300°F	2°	310 mm	181 mm	—	<a href="#">GY-08009-46</a>	
86C	Fuel rating, mix	95 to 175°C	1°	167 mm	35 mm	—	<a href="#">GY-08009-47</a>	
86F	Fuel rating, mix	200 to 350°F	2°	167 mm	35 mm	—	<a href="#">GY-08009-48</a>	
88C	Vegetable oil, flash	10 to 200°C	1°	287 mm	57 mm	—	<a href="#">GY-08009-49</a>	
88F	Vegetable oil, flash	50 to 392°F	2°	287 mm	57 mm	—	<a href="#">GY-08009-50</a>	
89C	Solidification point	-20 to 10°C	0.1°	370 mm	76 mm	—	<a href="#">GY-08009-51</a>	
90C	Solidification point	0 to 30°C	0.1°	370 mm	76 mm	—	<a href="#">GY-08009-52</a>	
91C	Solidification point	20 to 50°C	0.1°	370 mm	76 mm	—	<a href="#">GY-08009-53</a>	
97C	Tank	-18 to 49°C	0.5°	303 mm	Total	—	<a href="#">GY-08009-54</a>	
97F	Tank	0 to 120°F	1°	303 mm	Total	—	<a href="#">GY-08009-55</a>	
99C	Weathering test	-50 to 5°C	0.2°	302 mm	35 mm	—	<a href="#">GY-08009-56</a>	
99F	Weathering test	-55 to 40°F	0.5°	302 mm	35 mm	—	<a href="#">GY-08009-57</a>	
113C	Bituminous softening point	-1 to 175°C	0.5°	406 mm	Total	—	<a href="#">GY-08009-58</a>	
113F	Bituminous softening point	30 to 350°F	1°	406 mm	Total	—	<a href="#">GY-08009-59</a>	
114C	Aviation fuel freezing point	-80 to 20°C	0.5°	300 mm	Total	—	<a href="#">GY-08009-60</a>	
114F	Aviation fuel freezing point	-112 to 68°F	1°	300 mm	Total	—	<a href="#">GY-08009-61</a>	
130C	Tank	-7 to 105°C	0.5°	300 mm	Total	—	<a href="#">GY-08009-62</a>	
130F	Tank	20 to 220°F	1°	300 mm	Total	—	<a href="#">GY-08009-63</a>	

## Digi-Sense® Blue Spirit PFA-Coated Safety Glass Thermometers

### Stop contamination with PFA jacket

- Nonmercury blue spirit liquid
- Statement of accuracy included

PFA coating contains broken liquid and glass, preventing contamination or injury. Thermometers feature permanently fused markings, blue spirit liquid, white background glass; are also individually serial numbered. Include a statement of accuracy supplied by manufacturer and a triangular-style antiroll fitting.



Temperature range	Scale divisions	Accuracy	Length	Partial immersion			Total immersion	
				Catalog number	Immersion depth	Price	Catalog number	Price
<b>Celsius-scale thermometers</b>								
-10 to 110°C	2°	1.5°	200 mm	<a href="#">GY-08077-65</a>	50 mm		<a href="#">GY-08077-79</a>	
-10 to 150°C	2°	1.5°, 2° above 100°C	200 mm	<a href="#">GY-08077-66</a>	50 mm		<a href="#">GY-08077-80</a>	
-20 to 110°C	1°	±1.5°	300 mm	<a href="#">GY-08077-68</a>	76 mm		<a href="#">GY-08077-81</a>	
-20 to 150°C	1°	1.5°, 2° above 100°C	300 mm	<a href="#">GY-08077-76</a>	76 mm		<a href="#">GY-08077-82</a>	
<b>Fahrenheit-scale thermometers</b>								
0 to 230°F	2°	3°, 4° above 212°F	300 mm	<a href="#">GY-08077-77</a>	76 mm		<a href="#">GY-08077-83</a>	
0 to 300°F	2°	3°, 4° above 212°F	300 mm	<a href="#">GY-08077-78</a>	76 mm		—	—

## Digi-Sense® Blue Spirit Verification Bottle Thermometers

### Minimize fluctuations of readings



- Nonmercury blue spirit liquid on white background for easy reading
- Statement of accuracy and individual serial number for better record keeping

All thermometers are supplied in a glass bead filled unbreakable plastic bottle and can be removed from the bottle for recalibration. Use the magnetic attachment with pressure-sensitive backing to attach the bottle to a metal wall or door.

Thermometers 08077-21, -22 and -23 are supplied with a NIST-traceable calibration report supplied by the manufacturer with stated corrections to one-tenth of the smallest division.



Temperature range	Application	Bottle fill	Scale divisions	Accuracy	Length	Calibration points	Catalog number	Price
<b>Precision accuracy thermometers with NIST-traceable calibration report</b>								
-25 to -5°C	Freezer	Glass beads	0.1°	±0.4°	210 mm	-20, 10°C	<a href="#">GY-08077-21</a>	
-2 to 10°C	Refrigerator	Glass beads	0.1°	±0.4°	180 mm	0, 5°C	<a href="#">GY-08077-22</a>	
25 to 45°C	Incubator	Glass beads	0.1°	±0.4°	190 mm	30, 40°C	<a href="#">GY-08077-23</a>	
<b>Precision accuracy thermometers</b>								
-25 to -5°C	Freezer	Glass beads	0.1°	±0.4°	210 mm	—	<a href="#">GY-08077-31</a>	
-2 to 10°C	Refrigerator	Glass beads	0.1°	±0.4°	180 mm	—	<a href="#">GY-08077-32</a>	
15 to 30°C	Incubator	Glass beads	0.1°	±0.4°	180 mm	—	<a href="#">GY-08077-33</a>	
25 to 45°C	Incubator	Glass beads	0.1°	±0.4°	190 mm	—	<a href="#">GY-08077-34</a>	
95 to 115°C	Oven	Glass beads	0.1°	±0.4°	200 mm	—	<a href="#">GY-08077-35</a>	
<b>Standard accuracy thermometers</b>								
-90 to 25°C	Ultra low freezer	Glass beads	1°	±1.5°C, 2.5 below -50°C	145 mm	—	<a href="#">GY-08077-41</a>	
-30 to 1°C	Freezer	Glass beads	0.5°	±0.75°	135 mm	—	<a href="#">GY-08077-42</a>	
-5 to 20°C	Refrigerator	Glass beads	0.5°	±0.75°	135 mm	—	<a href="#">GY-08077-43</a>	
-5 to 15°C	Refrigerator	Glass beads	0.5°	±0.75°	125 mm	—	<a href="#">GY-08077-44</a>	
10 to 45°C	Incubator	Glass beads	0.5°	±0.75°	125 mm	—	<a href="#">GY-08077-45</a>	
15 to 50°C	Incubator	Glass beads	0.5°	±0.75°	135 mm	—	<a href="#">GY-08077-46</a>	
20 to 130°C	Oven	Glass beads	1°	±1.5°, 2° above 105°C	145 mm	—	<a href="#">GY-08077-47</a>	
50 to 200°C	High-temp oven	Glass beads	2°	±2.5°, 5° above 130°C	145 mm	—	<a href="#">GY-08077-48</a>	
<b>PFA-coated standard accuracy thermometers with liquid-filled bottle</b>								
-90 to 25°C	Ultralow freezer	Propylene glycol	1°	±2°, 3° below -50°C	145 mm	—	<a href="#">GY-90300-69</a>	
-5 to 20°C	Refrigerator	Ethylene glycol	0.5°	±1°	135 mm	—	<a href="#">GY-90300-72</a>	
-30 to 1°C	Freezer	Propylene glycol	0.5°	±1°	135 mm	—	<a href="#">GY-90300-70</a>	
-5 to 15°C	Refrigerator	Ethylene glycol	0.5°	±1°	125 mm	—	<a href="#">GY-90300-67</a>	
15 to 50°C	Incubator	Ethylene glycol	0.5°	±1°	135 mm	—	<a href="#">GY-90300-68</a>	
20 to 130°C	Oven	Vermiculite	1°	±2°	145 mm	—	<a href="#">GY-90300-71</a>	
50 to 200°C	High-temp oven	Vermiculite	2°	±4°, 6° above 130°C	145 mm	—	<a href="#">GY-90300-73</a>	

## Temperature

### Digi-Sense® Blue Spirit Certified Glass Thermometers

Be more accurate with your readings

- Nonmercury blue spirit liquid and white background for easy reading
- NIST-traceable, laminated report of calibration included

Thermometers are individually calibrated to NIST standards at specific temperatures and come with a NIST-traceable calibration report supplied by the manufacturer stating corrections to one-tenth the smallest division.



Temperature range	Scale divisions	Accuracy	Length	Calibration points	Partial immersion			Total immersion	
					Catalog number	Immersion depth	Price	Catalog number	Price
<b>Celsius-scale thermometers</b>									
-100 to 50°C	1°	2°, 3° below 50°C	300 mm	-78, -20, 0, 4, 37°C	<a href="#">GY-00708-00</a>	76 mm	—	—	—
-20 to 110°C	1°	±1.5°C	300 mm	0, 50, 100°C	<a href="#">GY-00708-01</a>	76 mm	—	<a href="#">GY-00708-05</a>	—
-20 to 110°C	1°	±1.5°C	300 mm	0, 37, 56°C	<a href="#">GY-90300-11</a>	76 mm	—	—	—
-20 to 150°C	1°	±1.5°; 2°C above 105°C	300 mm	0, 60, 120°C	<a href="#">GY-00708-02</a>	76 mm	—	<a href="#">GY-00708-06</a>	—
-10 to 70°C	0.5°	±1°C	300 mm	0, 37, 56°C	<a href="#">GY-00708-03</a>	76 mm	—	—	—
-1 to 51°C	0.1°	±1°C	460 mm	0, 10, 20, 30, 37, 40, 50°C	<a href="#">GY-90300-13</a>	76 mm	—	<a href="#">GY-90300-22</a>	—
-1 to 61°C	0.1	±1°C	420 mm	0, 37, 56°C	<a href="#">GY-00708-04</a>	76 mm	—	—	—
-10 to 225°C	1°	±1°C	300 mm	1, 100, 200°C	—	—	—	<a href="#">GY-00708-07</a>	—
-1 to 101°C	0.1°	±1°C	610 mm	0, 50, 100°C	—	—	—	<a href="#">GY-00708-08</a>	—
-1 to 101°C	0.1°	±1°C	610 mm	0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100°C	<a href="#">GY-90300-15</a>	76 mm	—	<a href="#">GY-90300-21</a>	—
-1 to 201°C	0.2°	0.7°, 1° above 100°C	610 mm	0, 25, 37, 44.6, 100, 121, 140, 150, 160, 200°C	—	—	—	<a href="#">GY-90300-23</a>	—
-1 to 201°C	0.2°	1°, 1.5° above 100°C	610 mm	0, 20, 37, 56, 80, 100, 121, 150°C	<a href="#">GY-90300-19</a>	76 mm	—	—	—
<b>Fahrenheit-scale thermometers</b>									
30 to 124°F	0.2°	±2°F	460 mm	32, 40, 60, 100, 120°F	<a href="#">GY-90300-17</a>	76 mm	—	—	—
0 to 300°F	2°	±3°; 4° above 220°F	300 mm	32, 100, 200, 300°F	<a href="#">GY-90300-20</a>	76 mm	—	—	—

### Nonhazardous General-Purpose Glass Thermometers

No more hazardous clean-ups

- Replace mercury thermometers with the same accuracy without any hazards
- 100% nontoxic, nonhazardous, biodegradable, and "green"
- Clean up spills easily with just soap and water

Each thermometer features a black liquid and yellow back glass which creates a distinct contrast making this thermometer very easy to read. These thermometers come complete with ring top anti-roll fitting, individual serial number, statement of accuracy supplied by the manufacturer, and recyclable packaging.



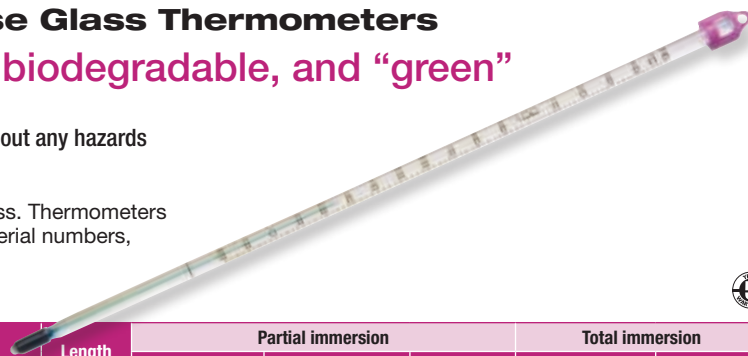
Temperature range	Scale divisions	Accuracy	Length	Partial immersion			Total immersion	
				Catalog number	Immersion depth	Price	Catalog number	Price
<b>Celsius-scale thermometers</b>								
-10 to 110°C	1°	±0.5°, 1°, below 0°C and above 70°C	200 mm	<a href="#">GY-08008-27</a>	50 mm	—	<a href="#">GY-08008-28</a>	—
-10 to 150°C	1°	±0.5°, 1°, below 0°C and above 70°C, 1.5° above 110°C	200 mm	<a href="#">GY-08008-29</a>	50 mm	—	<a href="#">GY-08008-30</a>	—
-35 to 50°C	0.5°	±0.5°	300 mm	<a href="#">GY-90300-32</a>	76 mm	—	<a href="#">GY-90300-34</a>	—
-20 to 110°C	1°	±0.5°, 1°, below 0°C and above 70°C	300 mm	<a href="#">GY-08008-35</a>	76 mm	—	<a href="#">GY-08008-36</a>	—
-20 to 150°C	1°	0.5°, 1° below 0 and above 70°C, 1.5° above 110°C	300 mm	<a href="#">GY-08008-37</a>	76 mm	—	<a href="#">GY-08008-38</a>	—
-10 to 70°C	0.5°	0.5°, 1° below 0°C	300 mm	<a href="#">GY-90300-33</a>	76 mm	—	—	—
-10 to 225°C	1°	±1°; 1.5° above 110°; 2° above 200°C	350 mm	—	—	—	<a href="#">GY-08008-44</a>	—
-10 to 260°C	1°	±1°; 1.5° above 110°; 2° above 200°C	350 mm	<a href="#">GY-08008-43</a>	76 mm	—	—	—
<b>Fahrenheit-scale thermometers</b>								
20 to 230°F	2°	1°, 2° below 32° and above 158°F	200 mm	<a href="#">GY-08008-31</a>	50 mm	—	<a href="#">GY-08008-32</a>	—
20 to 300°F	2°	1°, 2° below 32° and above 158°F, 3° above 230°F	200 mm	<a href="#">GY-08008-33</a>	50 mm	—	<a href="#">GY-08008-34</a>	—
0 to 230°F	2°	1°, 2° above 158°F	300 mm	<a href="#">GY-08008-39</a>	76 mm	—	<a href="#">GY-08008-40</a>	—
0 to 300°F	2°	1°, 2° below 32° and above 158°F, 3° above 230°F	300 mm	<a href="#">GY-08008-41</a>	76 mm	—	<a href="#">GY-08008-42</a>	—
20 to 440°F	2°	2°, 3° above 230°F, 4° above 392°F	350 mm	—	—	—	<a href="#">GY-08008-46</a>	—
20 to 500°F	2°	2°, 3° above 230°F, 4° above 392°F	350 mm	<a href="#">GY-08008-45</a>	76 mm	—	—	—

## Nonhazardous General-Purpose Glass Thermometers

100% nontoxic, nonhazardous, biodegradable, and “green”

- Replace mercury thermometers with the same accuracy without any hazards
- Easily clean up spills with just soap and water

Each thermometer features a green liquid and white back glass. Thermometers also have recyclable packaging, an antiroll fitting, individual serial numbers, and a statement of accuracy supplied by the manufacturer.



Temperature range	Scale divisions	Accuracy	Length	Partial immersion			Total immersion	
				Catalog number	Immersion depth	Price	Catalog number	Price
<b>Precision fractional Celsius-scale thermometer</b>								
-1 to 61°C	0.1°	±0.5° full scale	420 mm	<a href="#">GY-08008-78</a>	76 mm		—	—
<b>Celsius-scale thermometers</b>								
-10 to 110°C	1°	±1°	200 mm	<a href="#">GY-08008-57</a>	50 mm		<a href="#">GY-08008-58</a>	
-10 to 150°C	1°	1°; 1.5° above 110°C	200 mm	<a href="#">GY-08008-59</a>	50 mm		<a href="#">GY-08008-60</a>	
-35 to 50°C	1°	±1°	300 mm	<a href="#">GY-90300-49</a>	76 mm		<a href="#">GY-90300-51</a>	
-20 to 110°C	1°	±1°	300 mm	<a href="#">GY-08008-65</a>	76 mm		<a href="#">GY-08008-66</a>	
-20 to 150°C	1°	1°; 1.5° above 110°C	300 mm	<a href="#">GY-08008-67</a>	76 mm		<a href="#">GY-08008-68</a>	
-10 to 225°C	1°	1.5°; 2° above 110°; 2.5° above 200°C	350 mm	—	—	—	<a href="#">GY-08008-74</a>	
-10 to 260°C	1°	1.5°; 2° above 110°; 2.5° above 200°C	350 mm	<a href="#">GY-08008-73</a>	76 mm		—	—
<b>Fahrenheit-scale thermometers</b>								
20 to 230°F	2°	±2°	200 mm	<a href="#">GY-08008-61</a>	50 mm		<a href="#">GY-08008-62</a>	
20 to 300°F	2°	±2°; 3° above 230°F	200 mm	<a href="#">GY-08008-63</a>	50 mm		<a href="#">GY-08008-64</a>	
-30 to 120°F	1°	±1°	300 mm	<a href="#">GY-90300-50</a>	76 mm		—	—
0 to 230°F	2°	±2°	300 mm	<a href="#">GY-08008-69</a>	76 mm		<a href="#">GY-08008-70</a>	
0 to 300°F	2°	Partial ±2°; 3° above 230°F, Total ±1°, 1.5° above 230°F	300 mm	<a href="#">GY-08008-71</a>	76 mm		<a href="#">GY-08008-72</a>	
20 to 440°F	2°	±3°; 4° above 230°, 5° above 392°F	350 mm	—	—	—	<a href="#">GY-08008-76</a>	
20 to 500°F	2°	±3°; 4° above 230°, 5° above 392°F	350 mm	<a href="#">GY-08008-75</a>	76 mm		—	—

## Nonhazardous PFA-Coated Verification Bottle Thermometers

Eliminate fluctuations of readings when opening doors

- Certified as 100% nontoxic, nonhazardous, biodegradable, and “green”
- Replace mercury thermometers with the same accuracy without any hazards
- Minimize breakage and spillage with PFA coating
- Easily clean up spills with just soap and water

Each thermometer features a green liquid and white back glass. These thermometers also have individual serial numbers, and a statement of accuracy supplied by the manufacturer. Precision accuracy thermometers are supplied with a NIST-traceable calibration report supplied by the manufacturer with stated corrections to one-tenth of the smallest division. Easily remove thermometer from bottle if recalibration is needed.



Temperature range	Application	Bottle fill	Scale divisions	Accuracy	Length	Calibration point	Catalog number	Price
<b>Standard accuracy thermometers</b>								
-90 to 25°C	Ultra low freezer	Glass beads	1°	±1°; 2° from -1° to -40°C, 2.5° below -40°C	145 mm	—	<a href="#">GY-90300-65</a>	
-30 to 1°C	Freezer	Enviro-Safe liquid	0.5°	±0.5°	135 mm	—	<a href="#">GY-08077-53</a>	
-25 to -5°C	Freezer	Enviro-Safe liquid	0.1°	±0.2°	210 mm	—	<a href="#">GY-90300-60</a>	
-5 to 15°C	Refrigerator	Enviro-Safe liquid	0.5°	±0.5°	125 mm	—	<a href="#">GY-08077-54</a>	
-2 to 10°C	Refrigerator	Enviro-Safe liquid	0.1°	±0.2°	180 mm	—	<a href="#">GY-90300-61</a>	
10 to 45°C	Incubator	Enviro-Safe liquid	0.5°	±0.5°	98mm	—	<a href="#">GY-08077-55</a>	
15 to 30°C	Incubator	Enviro-Safe liquid	0.1°	±0.2°	180 mm	—	<a href="#">GY-90300-62</a>	
15 to 50°C	Incubator	Enviro-Safe liquid	0.5°	±0.5°	135 mm	—	<a href="#">GY-08077-56</a>	
15 to 50°C	Incubator	Enviro-Safe liquid	0.5°	±0.5°	135 mm	—	<a href="#">GY-08077-59†</a>	
25 to 45°C	Incubator	Enviro-Safe liquid	0.1°	±0.2°	190 mm	—	<a href="#">GY-90300-63</a>	
-5 to 20°C	Refrigerator	Enviro-Safe liquid	0.5°	±0.5°	135 mm	—	<a href="#">GY-08077-52</a>	
20 to 130°C	Oven	Glass beads	1°	±1°	145 mm	—	<a href="#">GY-08077-57</a>	
95 to 115°C	Oven	Glass beads	0.1°	±0.4°	200 mm	—	<a href="#">GY-90300-64</a>	
50 to 200°C	High-temp oven	Glass beads	2°	±2°, 4° above 130°C	145 mm	—	<a href="#">GY-08077-58</a>	
<b>Precision accuracy thermometers with NIST report</b>								
-90 to 25°C	Ultra low freezer	Glass beads	1°	±1°; 2° from -1° to -40°C, 2.5° below -40°C	145 mm	-40°C	<a href="#">GY-90300-55‡</a>	
-30 to 1°C	Freezer	Enviro-Safe liquid	0.5°	±0.5°	135 mm	-15°C	<a href="#">GY-90300-57</a>	
-25 to -5°C	Freezer	Enviro-Safe liquid	0.1°	±0.2°	210 mm	-20, -10°C	<a href="#">GY-08077-21</a>	
-5 to 15°C	Refrigerator	Enviro-Safe liquid	0.5°	±0.5°	125 mm	6°C	<a href="#">GY-90300-56</a>	
-2 to 10°C	Refrigerator	Enviro-Safe liquid	0.1°	±0.2°	180 mm	0, 5°C	<a href="#">GY-08077-22</a>	
15 to 30°C	Incubator	Enviro-Safe liquid	0.1°	±0.2°	180 mm	20, 25°C	<a href="#">GY-90300-53</a>	
15 to 50°C	Incubator	Enviro-Safe liquid	0.5°	±0.5°	135 mm	37°C	<a href="#">GY-90300-59</a>	
25 to 45°C	Incubator	Enviro-Safe liquid	0.1°	±0.2°	190 mm	30, 40°C	<a href="#">GY-08077-23</a>	
-5 to 20°C	Refrigerator	Enviro-Safe liquid	0.5°	±0.5°	135 mm	4°C	<a href="#">GY-90300-58</a>	
95 to 115°C	Oven	Enviro-Safe liquid	0.1°	±0.4°	200 mm	100, 110°C	<a href="#">GY-90300-54</a>	

†Easy-Read style, Enviro-Safe® liquid fill dyed blackon yellow back glass. ‡Contains hazardous liquid.

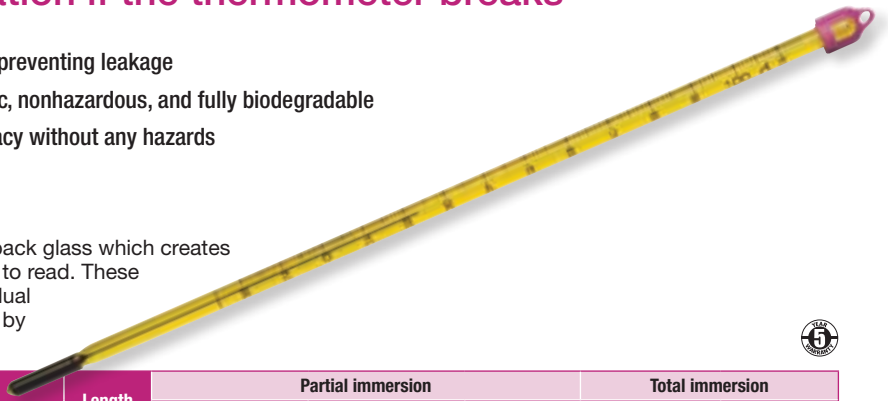
# Temperature

## Nonhazardous PFA-Coated Safety Glass Thermometers

### No more glass or contamination if the thermometer breaks

- Filling and glass are contained within the PFA jacket, preventing leakage
- Enviro-Safe liquid within the thermometers is nontoxic, nonhazardous, and fully biodegradable
- Replace mercury thermometers with the same accuracy without any hazards
- Easily clean up spills with soap and water

Each thermometer features a black liquid and yellow back glass which creates a distinct contrast making this thermometer very easy to read. These thermometers also have ring top, antiroll fitting, individual serial numbers, and a statement of accuracy supplied by the manufacturer.



Temperature range	Scale divisions	Accuracy	Length	Partial immersion			Total immersion	
				Catalog number	Immersion depth	Price	Catalog number	Price
<b>Celsius-scale thermometers</b>								
-10 to 110°C	1°	±1°	200 mm	<a href="#">GY-08077-03</a>	50 mm	—	<a href="#">GY-08077-05</a>	—
-10 to 150°C	1°	±1°; ±1.5° above 110°C	200 mm	<a href="#">GY-08077-06</a>	50 mm	—	<a href="#">GY-08077-07</a>	—
-20 to 110°C	1°	±1°	300 mm	<a href="#">GY-08077-13</a>	76 mm	—	<a href="#">GY-08077-14</a>	—
-20 to 150°C	1°	±1°; ±1.5° above 110°C	300 mm	<a href="#">GY-08077-15</a>	76 mm	—	<a href="#">GY-08077-16</a>	—
-10 to 70°C	0.5°	0.05°	300 mm	<a href="#">GY-90300-01</a>	76 mm	—	—	—
-10 to 225°C	1°	1.5°, 2° above 110°C, 2.5° above 200°C	350 mm	—	—	—	<a href="#">GY-90300-07</a>	—
-10 to 260°C	1°	1.5°; ±2° above 110°C; 2.5° above 200°C	350 mm	<a href="#">GY-90300-03</a>	76 mm	—	—	—
<b>Fahrenheit-scale thermometers</b>								
20 to 230°F	2°	±2°	200 mm	<a href="#">GY-08077-08</a>	50 mm	—	<a href="#">GY-08077-09</a>	—
20 to 300°F	2°	2°, 3° above 230°F	200 mm	<a href="#">GY-08077-11</a>	50 mm	—	<a href="#">GY-08077-12</a>	—
0 to 230°F	2°	±2°	300 mm	<a href="#">GY-08077-17</a>	76 mm	—	<a href="#">GY-08077-18</a>	—
0 to 300°F	2°	3°, 4° above 230°F	300 mm	<a href="#">GY-08077-19</a>	76 mm	—	<a href="#">GY-08077-26</a>	—
20 to 500°F	2°	±2°; ±3° above 221°F; 4° above 392°F	350 mm	<a href="#">GY-90300-05</a>	76 mm	—	—	—

## Certified Nonhazardous Glass Thermometers

### Maximize your accuracy—individually calibrated

- Replace mercury thermometers with the same accuracy without any hazards
- 100% nontoxic, nonhazardous, biodegradable, and “green”—liquid easily cleans with soap and water
- NIST-traceable detailed, laminated Report of Calibration

Each thermometer features a black liquid and yellow back glass which creates a distinct contrast that is easy to read. Thermometers come complete with ring top anti-roll fitting, individual serial number and NIST-traceable calibration report supplied by the manufacturer.



Temperature range	Scale divisions	Accuracy	Length	Calibration points	Partial immersion			Total immersion	
					Catalog number	Immersion depth	Price	Catalog number	Price
<b>Celsius-scale thermometers</b>									
-10 to 70°C	0.5°	0.5°	300 mm	0, 37, 56°C	<a href="#">GY-08008-47</a>	76 mm	—	—	—
-20 to 110°C	1°	1°	300 mm	0, 50, 100°C	<a href="#">GY-08008-48</a>	76 mm	—	<a href="#">GY-08008-49</a>	—
-20 to 110°C	1°	1°	300 mm	0, 37, 56°C	<a href="#">GY-08008-52</a>	76 mm	—	<a href="#">GY-08008-53</a>	—
-20 to 110°C	1°	1°	300 mm	0, 4, 20, 37, 44.5, 103°C	<a href="#">GY-90300-31</a>	76 mm	—	—	—
-20 to 150°C	1°	1°	300 mm	0, 60, 120°C	<a href="#">GY-08008-50</a>	76 mm	—	<a href="#">GY-08008-51</a>	—
-10 to 225°C	1°	1°	350 mm	1, 100, 200°C	—	—	—	<a href="#">GY-08008-54</a>	—

### Thermometer Holder with Clip

- Hands-free support—clips to vessel side
- Accommodates thermometers from 4 to 14 mm dia



Description	Catalog number	Price
Thermometer holder with clip	<a href="#">GY-08120-90</a>	—

### Antiroll Fittings

- Keep thermometer in place—slide onto standard size thermometer to prevent rolling



Style	Catalog number	Qty/pk	Price
Ring top	<a href="#">GY-08007-98</a>	25	—
Triangular	<a href="#">GY-08007-99</a>	25	—

Digi-Sense® Bimetal Industrial Thermometers



Dial / Bimetal Thermometers



Back-connected dial



Adjustable angle dial

General Features

- ±1% full-scale accuracy
- Reset screw for field calibration
- Anti-parallax dished dial for superior readability
- Rugged 304 stainless steel construction for tough environments
- Guaranteed hermetically sealed per ASME B40.3 standard to prevent fogging
- Heat-treated bimetal helix for extended life and accuracy
- Made in the USA

Standard Thermometers

- Silicone-free, dry case thermometer
- Manufactured in a totally silicone-free environment
- The "workhorse" thermometer of the industrial market place

Dampened Movement Thermometers

- Provides all the advantages of silicone-free, dry case thermometers
- Dampening is achieved by using an inert gel encapsulated in a dashpot
- Dry case eliminates the possibility of cross-contamination if thermometer breaks
- Eliminates pointer flutter, improving readability
- Increased overall life of the thermometer

Silicone-Filled Thermometers

- Designed for the most severe vibration conditions
- Silicone is used to dampen and lubricate all internal parts, enhancing readability and lifespan
- Superior performance that will hold up to the toughest vibration applications
- Lens material is acrylic due to the expansion properties of silicone

Specifications

Accuracy: ±1% full-scale  
 Materials: 304 SS case and stem†  
 Dimensions: 0.25" stem dia  
 Connections: ½" NPT(M)



Dial size (dia)	Stem length in. (cm)	Temperature ranges (scale divisions)							
		0 to 250°F (2°F) -20 to 120°C (1°C)		25 to 125°F (2°F) -5 to 50°C (1°C)		50 to 300°F (2°F) 10 to 150°C (1°C)		50 to 550°F (2°F) 10 to 290°C (1°C)	
		Cat. no.	Price	Cat. no.	Price	Cat. no.	Price	Cat. no.	Price
<b>Back-connected dial</b>									
<b>Standard (glass lens†)</b>									
3" (7.6 cm)	2.5 (6.4)	<a href="#">GY-08138-01</a>		—	—	<a href="#">GY-08138-03</a>		<a href="#">GY-08138-04</a>	
	4 (10.2)	<a href="#">GY-08139-01</a>		<a href="#">GY-08139-02</a>		<a href="#">GY-08139-03</a>		<a href="#">GY-08139-04</a>	
	6 (15.2)	<a href="#">GY-08140-01</a>		<a href="#">GY-08140-02</a>		<a href="#">GY-08140-03</a>		<a href="#">GY-08140-04</a>	
	9 (22.9)	<a href="#">GY-08141-01</a>		<a href="#">GY-08141-02</a>		<a href="#">GY-08141-03</a>		<a href="#">GY-08141-04</a>	
	12 (30.5)	<a href="#">GY-08142-01</a>		<a href="#">GY-08142-02</a>		<a href="#">GY-08142-03</a>		<a href="#">GY-08142-04</a>	
24 (61.0)	<a href="#">GY-08144-01</a>		<a href="#">GY-08144-02</a>		<a href="#">GY-08144-03</a>		<a href="#">GY-08144-04</a>		
<b>Dampened movement (glass lens†)</b>									
3" (7.6 cm)	2.5 (6.4)	<a href="#">GY-90550-59</a>		—	—	—	—	<a href="#">GY-90550-60</a>	
	4 (10.2)	<a href="#">GY-90550-61</a>		—	—	—	—	<a href="#">GY-90550-62</a>	
	6 (15.2)	<a href="#">GY-90550-63</a>		—	—	—	—	<a href="#">GY-90550-64</a>	
	9 (22.9)	<a href="#">GY-90550-65</a>		—	—	—	—	<a href="#">GY-90550-66</a>	
	12 (30.5)	<a href="#">GY-90550-67</a>		—	—	—	—	<a href="#">GY-90550-68</a>	
24 (61.0)	<a href="#">GY-90550-69</a>		—	—	—	—	<a href="#">GY-90550-70</a>		
<b>Silicone-filled (acrylic lens†)</b>									
3" (7.6 cm)	2.5 (6.4)	<a href="#">GY-90551-41</a>		—	—	<a href="#">GY-90551-42</a>		—	—
	4 (10.2)	<a href="#">GY-90551-43</a>		<a href="#">GY-08084-06</a>		<a href="#">GY-90551-44</a>		—	—
	6 (15.2)	<a href="#">GY-90551-45</a>		<a href="#">GY-08084-07</a>		<a href="#">GY-90551-46</a>		—	—
	9 (22.9)	<a href="#">GY-90551-47</a>		<a href="#">GY-08084-08</a>		<a href="#">GY-90551-48</a>		—	—
	12 (30.5)	<a href="#">GY-90551-49</a>		<a href="#">GY-08084-09</a>		<a href="#">GY-90551-50</a>		—	—
24 (61.0)	<a href="#">GY-90551-51</a>		<a href="#">GY-08084-10</a>		<a href="#">GY-90551-52</a>		—	—	
<b>Bottom-connected dial (90° angle)</b>									
<b>Standard (glass lens†)</b>									
3" (7.6 cm)	2.5 (6.4)	<a href="#">GY-08131-01</a>		—	—	<a href="#">GY-08131-03</a>		<a href="#">GY-08131-04</a>	
	4 (10.2)	<a href="#">GY-08132-01</a>		<a href="#">GY-08132-02</a>		<a href="#">GY-08132-03</a>		<a href="#">GY-08132-04</a>	
	6 (15.2)	<a href="#">GY-08133-01</a>		<a href="#">GY-08133-02</a>		<a href="#">GY-08133-03</a>		<a href="#">GY-08133-04</a>	
	9 (22.9)	<a href="#">GY-08134-01</a>		<a href="#">GY-08134-02</a>		<a href="#">GY-08134-03</a>		<a href="#">GY-08134-04</a>	
	12 (30.5)	<a href="#">GY-08135-01</a>		<a href="#">GY-08135-02</a>		<a href="#">GY-08135-03</a>		<a href="#">GY-08135-04</a>	
24 (61.0)	<a href="#">GY-08137-01</a>		<a href="#">GY-08137-02</a>		<a href="#">GY-08137-03</a>		<a href="#">GY-08137-04</a>		
<b>Dampened movement (glass lens†)</b>									
3" (7.6 cm)	2.5 (6.4)	<a href="#">GY-90550-47</a>		—	—	—	—	<a href="#">GY-90550-48</a>	
	4 (10.2)	<a href="#">GY-90550-49</a>		—	—	—	—	<a href="#">GY-90550-50</a>	
	6 (15.2)	<a href="#">GY-90550-51</a>		—	—	—	—	<a href="#">GY-90550-52</a>	
	9 (22.9)	<a href="#">GY-90550-53</a>		—	—	—	—	<a href="#">GY-90550-54</a>	
	12 (30.5)	<a href="#">GY-90550-55</a>		—	—	—	—	<a href="#">GY-90550-56</a>	
24 (61.0)	<a href="#">GY-90550-57</a>		—	—	—	—	<a href="#">GY-90550-58</a>		
<b>Silicone-filled (acrylic lens†)</b>									
3" (7.6 cm)	2.5 (6.4)	<a href="#">GY-90551-29</a>		—	—	<a href="#">GY-90551-30</a>		—	—
	4 (10.2)	<a href="#">GY-90551-31</a>		—	—	<a href="#">GY-90551-32</a>		—	—
	6 (15.2)	<a href="#">GY-90551-33</a>		—	—	<a href="#">GY-90551-34</a>		—	—
	9 (22.9)	<a href="#">GY-90551-35</a>		—	—	<a href="#">GY-90551-36</a>		—	—
	12 (30.5)	<a href="#">GY-90551-37</a>		—	—	<a href="#">GY-90551-38</a>		—	—
24 (61.0)	<a href="#">GY-90551-39</a>		—	—	<a href="#">GY-90551-40</a>		—	—	
<b>Adjustable angle dial (0 to 90° angles)</b>									
<b>Standard (glass lens†)</b>									
3" (7.6 cm)	2.5 (6.4)	<a href="#">GY-90490-01</a>		—	—	<a href="#">GY-90490-03</a>		<a href="#">GY-90490-04</a>	
	4 (10.2)	<a href="#">GY-90491-01</a>		<a href="#">GY-90491-02</a>		<a href="#">GY-90491-03</a>		<a href="#">GY-90491-04</a>	
	6 (15.2)	<a href="#">GY-90492-01</a>		<a href="#">GY-90492-02</a>		<a href="#">GY-90492-03</a>		<a href="#">GY-90492-04</a>	
	9 (22.9)	<a href="#">GY-90493-01</a>		<a href="#">GY-90493-02</a>		<a href="#">GY-90493-03</a>		<a href="#">GY-90493-04</a>	
	12 (30.5)	<a href="#">GY-90494-01</a>		<a href="#">GY-90494-02</a>		<a href="#">GY-90494-03</a>		<a href="#">GY-90494-04</a>	
24 (61.0)	<a href="#">GY-90496-01</a>		<a href="#">GY-90496-02</a>		<a href="#">GY-90496-03</a>		<a href="#">GY-90496-04</a>		
<b>Dampened movement (glass lens†)</b>									
3" (7.6 cm)	2.5 (6.4)	<a href="#">GY-90550-35</a>		—	—	—	—	<a href="#">GY-90550-36</a>	
	4 (10.2)	<a href="#">GY-90550-37</a>		—	—	—	—	<a href="#">GY-90550-38</a>	
	6 (15.2)	<a href="#">GY-90550-39</a>		—	—	—	—	<a href="#">GY-90550-40</a>	
	9 (22.9)	<a href="#">GY-90550-41</a>		—	—	—	—	<a href="#">GY-90550-42</a>	
	12 (30.5)	<a href="#">GY-90550-43</a>		—	—	—	—	<a href="#">GY-90550-44</a>	
24 (61.0)	<a href="#">GY-90550-45</a>		—	—	—	—	<a href="#">GY-90550-46</a>		
<b>Silicone-filled (acrylic lens†)</b>									
3" (7.6 cm)	2.5 (6.4)	<a href="#">GY-90510-01</a>		—	—	<a href="#">GY-90510-03</a>		—	—
	4 (10.2)	<a href="#">GY-08081-01</a>		<a href="#">GY-08081-02</a>		<a href="#">GY-08081-03</a>		—	—
	6 (15.2)	<a href="#">GY-08082-01</a>		<a href="#">GY-08082-02</a>		<a href="#">GY-08082-03</a>		—	—
	9 (22.9)	<a href="#">GY-08083-01</a>		<a href="#">GY-08083-02</a>		<a href="#">GY-08083-03</a>		—	—
	12 (30.5)	<a href="#">GY-08084-01</a>		<a href="#">GY-08084-02</a>		<a href="#">GY-08084-03</a>		—	—
24 (61.0)	<a href="#">GY-90516-01</a>		<a href="#">GY-90516-02</a>		<a href="#">GY-90516-03</a>		—	—	

†Maximum environmental temperature for glass lens is 550°F (290°C); acrylic lens is 180°F (82°C).

[GY-17003-00](#) NIST-traceable calibration with data for bimetallic thermometer

# Temperature

Dial / Bimetal Thermometers

## Digi-Sense® Soil/Compost Thermometers

Get quick measurements

- Calibrate with external reset screw
- Thermometers meet ASME B40.3 standards for leak- and fog-proof operation



### Specifications

**Accuracy:** ±1% full-scale  
**Materials:** 304 SS case and stem, acrylic lens



Probe dimensions (L x dia)		Temperature range	Divisions	Catalog number	Price
in.	cm				
12 x 1/4	30.5 x 0.6	0 to 200°F (-15 to 90°C)	2°F (1°C)	<a href="#">GY-90577-30</a>	
24 x 1/8	61.0 x 1.0			<a href="#">GY-90585-30</a>	
36 x 1/8	91.4 x 1.0			<a href="#">GY-90586-30</a>	
48 x 1/8	121.9 x 1.0			<a href="#">GY-90587-30</a>	

### Accessories

[GY-17003-00](#) NIST-traceable calibration with data for bimetallic thermometer

## Digi-Sense® Solar-Powered Adjustable-Angle Thermometers

Read from any angle

- No batteries required—ideal for plant floor or lab
- Safety circuit prevents false readings



### Specifications

**Accuracy:** ±1% full-scale  
**Resolution:** 0.1°F or °C  
**Probe:** thermistor type; 0.25" dia stem  
**Materials:** 304 SS case and stem, acrylic lens  
**Dimensions:** 3.25" dia face  
**Power:** solar (above 35 lux light level)  
**Connections:** 1/2" NPT



Temperature range	Stem length	Catalog number	Price
-50 to 300°F	2.5"	<a href="#">GY-90130-02</a>	
	4"	<a href="#">GY-90130-04</a>	
	6"	<a href="#">GY-90130-06</a>	
	9"	<a href="#">GY-90130-09</a>	
	12"	<a href="#">GY-90130-12</a>	
-50 to 150°C	2.5"	<a href="#">GY-90131-02</a>	
	4"	<a href="#">GY-90131-04</a>	
	6"	<a href="#">GY-90131-06</a>	
	9"	<a href="#">GY-90131-09</a>	
	12"	<a href="#">GY-90131-12</a>	

### Accessories

[GY-17003-00](#) NIST-traceable calibration with data for bimetallic thermometer

## Surface Thermometers

Read surface temperatures easily

### Magnetic-Mount Thermometers

An ideal choice for use on ovens, boilers, process lines, motors, or anywhere a surface temperature needs to be measured. The specially designed, bimetal sensing element and housing provide quick readings. These thermometers feature a dual-magnet mount that attaches to ferrous metal surfaces, a steel case, a glass lens, and a polished aluminum 2" dial with easy-to-read graduations.

### Spring-Mount Thermometers

These spring-mount thermometers provide a fast, reliable method of measuring surface temperature of pipes and other rounded surfaces. The temperature sensor is protected from drafts and other heat sources by a barrier guaranteeing integrity of readings. The 2 1/2" dial models have a rugged 304 SS case and are supplied with a single 300 SS spring for mounting rounded surfaces of 1" and smaller. Supplied with a heat-treated bimetallic sensor.



Temperature range	Division	Catalog number	Price
<b>Magnetic mount</b> (dual magnets, 2" dial, use on ferrous metal flat surfaces)			
0 to 150°F (-20 to 60°C)	1°F/1°C	<a href="#">GY-08107-06</a>	
0 to 250°F (-20 to 120°C)	2°F/1°C	<a href="#">GY-08107-21</a>	
0 to 500°F (-20 to 260°C)	5°F/2°C	<a href="#">GY-08107-04</a>	
50 to 750°F (50 to 400°C)	10°F/5°C	<a href="#">GY-08107-05</a>	
<b>Spring mount</b> (one spring, 2 1/2" dial, fits 1" or smaller round surfaces)			
0 to 250°F (-10 to 150°C)	2°F/1°C	<a href="#">GY-08107-25</a>	
0 to 500°F (-20 to 260°C)	5°F/2°C	<a href="#">GY-08107-26</a>	
50 to 750°F (10 to 400°C)	10°F/5°C	<a href="#">GY-08107-27</a>	

**Digi-Sense® Stainless Steel Pocket Thermometers** 

**Read dial easily**

- Factory calibration to three points with a ±1% accuracy
- Hermetically sealed dial plate stops internal fogging
- Recalibrate using external adjustment nut
- Includes an anti-microbial plastic storage sleeve
- Shock resistant



**Specifications**

**Accuracy:** ±1% full-scale  
**Materials:** 304 SS dial case and stem, polycarbonate lens  
**Dimensions:** 5"L x 0.142" dia stem, 1" dia dial

Temp range†	Divisions	Cat. no.	Price
-40 to 160°F	2°F	<a href="#">GY-08127-10</a>	
25 to 125°F	1°F	<a href="#">GY-08127-15†</a>	
0 to 220°F	2°F	<a href="#">GY-08127-20†</a>	
50 to 550°F	5°F	<a href="#">GY-08127-30</a>	
-40 to 50°C	1°C	<a href="#">GY-08080-07</a>	
-10 to 110°C	1°C	<a href="#">GY-08080-08</a>	

†NSF listed.  
 ‡Temperature range for probe only. Polycarbonate lens maximum temperature is 275°F (135°C).

**Stand up to high temperatures**

- Factory calibration to three points with a ±1% accuracy
- Hermetically sealed dial plate stops internal fogging
- Recalibrate using external adjust nut
- Includes a beaker clip
- Shock resistant



**Specifications**

**Accuracy:** ±1% full-scale  
**Materials:** 304 SS dial case and stem, glass lens  
**Dim:** 8"L x 0.150" dia stem, 1.75" dia dial

Temp range	Divisions	Cat. no.	Price
-40 to 160°F	2°F	<a href="#">GY-08080-01</a>	
25 to 125°F	1°F	<a href="#">GY-08080-02</a>	
0 to 180°F	2°F	<a href="#">GY-08080-03</a>	
0 to 220°F	2°F	<a href="#">GY-08080-04</a>	
50 to 300°F	2°F	<a href="#">GY-08080-05</a>	
50 to 500°F	5°F	<a href="#">GY-08080-06</a>	
-10 to 110°C	1°C	<a href="#">GY-08080-10</a>	
0 to 50°C	0.5°C	<a href="#">GY-08080-11</a>	
0 to 100°C	1°C	<a href="#">GY-08080-12</a>	
0 to 250°C	2°C	<a href="#">GY-08080-13</a>	

[GY-08103-02](#) Replacement beaker clip for 1.75" and 2" dia thermometers

**Read two scales simultaneously**

- Factory calibration to three points with a ±1% accuracy
- Hermetically sealed dial plate stops internal fogging
- Recalibrate using external adjustment nut
- Shock resistant



**Specifications**

**Accuracy:** ±1% full-scale  
**Materials:** 304 SS dial case and stem, polycarbonate lens  
**Dims:** 8"L x 0.142" dia stem, 2" dia dial

Temp range†	Divisions	Cat. no.	Price
-40 to 160°F, -40 to 70°C	2°F, 1°C	<a href="#">GY-08103-40</a>	
0 to 220°F, -10 to 110°C	2°F, 1°C	<a href="#">GY-08103-10</a>	
25 to 125°F, -4 to 52°C	1°F, 0.5°C	<a href="#">GY-08103-50</a>	
0 to 550°F, -10 to 290°C	5°F, 5°C	<a href="#">GY-08103-30</a>	

†Temperature range for probe only. Polycarbonate lens maximum temperature is 275°F (135°C).

**Pocket Thermometer**

**Easy reading with magnifying lens**

- Factory calibrated to one point
- Hermetically sealed case
- Includes plastic storage sleeve with pocket clip
- Sleeve features a built-in wrench for convenient field adjustment



**Specifications**

**Accuracy:** ±2% full-scale  
**Materials:** 304 SS dial case and stem, polycarbonate lens  
**Dimensions:** 5"L x 0.142" (12.7 x 0.36 cm) dia stem, 1" (2.5 cm) dia dial

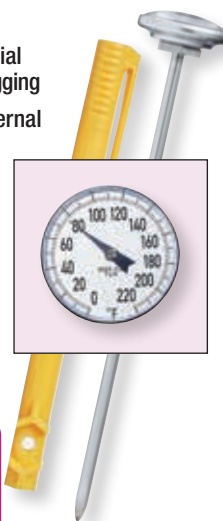


Temp range	Divisions	Catalog number	Price
-40 to 160°F	2°F	<a href="#">GY-08080-18</a>	
25 to 125°F	1°F	<a href="#">GY-08080-17</a>	
0 to 220°F	2°F	<a href="#">GY-08080-14</a>	
50 to 550°F	5°F	<a href="#">GY-08080-15</a>	
-40 to 50°C	1°C	<a href="#">GY-08080-16</a>	
-10 to 110°C	1°C	<a href="#">GY-08080-19</a>	

**Antibacterial Pocket Thermometer**

**No more bacterial growth**

- NSF listed
- Hermetically sealed dial plate stops internal fogging
- Recalibrate using external adjustment nut
- Multi-purpose protective case also functions as a handle and recalibration wrench
- Bold, easy-to-read dial numerals



**Specifications**

**Accuracy:** ±2% full-scale  
**Materials:** 304 SS dial case and stem, polycarbonate lens  
**Dimensions:** 5"L x 0.142 dia stem, 1" dia dial



Temp range	Divisions	Cat. no.	Price
0 to 220°F	2°F	<a href="#">GY-90000-24</a>	

**Indoor/Outdoor Jumbo Thermometers**

**Weather won't ruin it**

- Durable metal case is weather-resistant
- Easily mount to wall or other flat surfaces
- Temperature scale has maximum contrast for ease of reading in low-lighting conditions

90000-31



90000-32



90000-35



Style	Temp range	Cat. no.	Price
Temperature (12" dia round)	0 to 120°F (-50 to 50°C)	<a href="#">GY-90000-32</a>	
Temperature/RH (12" dia round)	0 to 120°F (-50 to 50°C)	<a href="#">GY-90000-35</a>	
Dry storage (12"L rectangle)†	-30 to 120°F (-40 to 50°C)	<a href="#">GY-90000-31</a>	
Cold storage (12"L rectangle)†	-60 to 120°F (-50 to 50°C)	<a href="#">GY-90000-33</a>	

†Spirit-filled glass tube.

# NSF-Approved Digital Pocket Thermometers

## Maintain product safety with accurate readings

- 304 stainless steel penetration stem
- All include a protective case with pocket clip and a battery



**A. Taylor® Flat-Edged Dial Safe-T-Guard Thermometer** with antimicrobial sleeve. Special additive in the sleeve material inhibits bacterial and fungal growth. Thermometer is waterproof for dependable use in kitchen or lab environments. Field calibratable. °F/°C switchable. Auto-off feature saves on battery life. (90000-65 has a 1.5 mm FDA-recommended step-down tip).

**B. Taylor Pen-Style Safe-T-Guard Thermometer** with antimicrobial sleeve. Special additive in the sleeve material inhibits bacterial and fungal growth. Thermometer is waterproof for dependable use in kitchen or lab environments. Field calibratable. Features °F/°C switchable ranges, Max and Hold functions, and auto-off which saves on battery life. Includes lanyard. Dishwasher safe.

**C. Taylor Easy-Read Reduced-Tip Pen-Style Safe-T-Guard Thermometer** with antimicrobial sleeve. Same features as “B” plus the addition of a 1.5-mm FDA-recommended step-down tip and back-lit LCD.

**D. Cooper-Atkins® Reduced-Tip Pen-Style Waterproof Thermometer** with antimicrobial protection added to all plastic components. Thermometer is factory calibrated to three temperature points and guaranteed to never need field adjustment. Features include IP67 rating, stainless steel shaft, 6-second response time, °F/°C switchable ranges, hold function, min/max reading, and auto-off.

**E. Cooper-Atkins Reduced-Tip Waterproof Thermometer** with alarm. Same features as “E” plus the addition of a unique adjustable alarm function. Dishwasher-safe.

**F. Comark® Basic Reduced Tip Thermometer** with boot and antimicrobial protection is water resistant and has a 5" (127 mm) long stem and a 0.6" (1.5 mm) diameter tip. This field-calibratable meter features °F/°C switchable ranges, a hold function, and low battery indicator. (90025-00 does not include boot).

**G. Comark Waterproof Thermometer with Large Head** and antimicrobial protection has a 5" (127 mm) long stem and a 0.8" (2.2 mm) diameter tip. This field-calibratable meter features °F/°C switchable ranges, a hold function and low battery indicator. Dishwasher ready and designed to monitor whether an industrial dishwasher has achieved the required disinfection temperature.

**H. Comark Reduced Tip Waterproof Thermometer** with antimicrobial protection has a 2¾" (68.5 mm) long stem and a 0.6" (1.5 mm) diameter tip. This field-calibratable meter features °F/°C switchable ranges, hold function, display that updates every 1.5 seconds and low battery indicator.

**I. Comark High-Accuracy Reduced Tip Waterproof Thermometer** with antimicrobial protection has the same features as item “H” above, plus an accuracy of ±1%. This dishwasher ready thermometer is designed to monitor whether an industrial dishwasher has achieved the required disinfection temperature.



Key letter	Range	Resolution	Accuracy†	Probe diameter	Catalog number	Price
A	-40 to 450°F (-40 to 230°C)	0.1°F (0.1°C)	±1°F (±0.6°C)	5"L x 0.15"	<a href="#">GY-90000-60</a>	
	-40 to 450°F (-40 to 230°C)	0.1°F (0.1°C)	±1°F (±0.6°C)	5"L x 0.15"	<a href="#">GY-90000-65</a>	
B	-40 to 450°F (-40 to 230°C)	0.1°F (0.1°C)	±1.8°F (1.0°C)	2.5"L x 0.16"	<a href="#">GY-90000-61</a>	
C	-40 to 450°F (-40 to 230°C)	0.1°F (0.1°C)	±1°F (±1°C)	2.5"L x 0.16"	<a href="#">GY-90000-68</a>	
D	-40 to 392°F (-40 to 150°C)	0.1°F (0.1°C)	±2°F (±1°C)	2.75"L x 0.156"	<a href="#">GY-90025-02</a>	
E	-40 to 450°F (-40 to 232°C)	0.1°F (0.1°C)	±2°F (±1°C)	4.625"L x 0.140"	<a href="#">GY-90025-01</a>	
F	-40 to 300°F (-40 to 150°C)	0.1°F (0.1°C)	±2°F (1°C)	5"L x 0.6"	<a href="#">GY-90025-04</a>	
	-40 to 300°F (-40 to 150°C)	0.1°F (0.1°C)	±2°F (1°C)	5"L x 0.6"	<a href="#">GY-90025-00</a>	
G	-4 to 400°F (-20 to 200°C)	0.1°F (0.1°C)	±2°F (1°C)	2.75"L x 0.8"	<a href="#">GY-90000-57</a>	
H	-40 to 450°F (-40 to 230°C)	0.1°F (0.1°C)	±2°F (1°C)	2.7"L x 0.6"	<a href="#">GY-90000-62</a>	
I	-4 to 400°F (-20 to 200°C)	0.1°F (0.1°C)	±1°F (0.5°C)	2.75"L x 0.6"	<a href="#">GY-90000-59</a>	

†Basic accuracy shown, full accuracy is available online

[GY-17003-00](#) NIST-traceable calibration with data for pocket thermometers

# Digi-Sense® General-Purpose Digital Pocket Thermometers

## Don't risk accuracy—precalibrated

- 304 stainless steel penetration stem
- All include a protective case with pocket clip and battery



**A. Pen-Style Pocket Thermometer** offers fast response and laboratory accuracy. Features include probe guard, Min/Max/Hold, °F/°C switchable ranges and auto power-off to conserve battery life. Includes a NIST-traceable calibration report with data supplied by InnoCal.

**B. Large Head Pocket Thermometer** offers fast response and laboratory accuracy. The head of the thermometer is square allowing the unit not to roll when placed on a flat surface. Features include probe guard, °F/°C switchable ranges and auto power-off to conserve battery life. Includes a NIST-traceable calibration report with data supplied by InnoCal.

**C. Waterproof Thermometer** features a dishwasher-safe sealed case. Features °F/°C switchable ranges, a Min/Max button, and display updates every second. Use ON/OFF button to conserve battery life.

**D. Key-Chain “Mini” Thermometer** is pocket sized and perfect for carrying around anywhere. Clip onto a lab coat, jacket zipper, belt loop, backpack, or key ring. Features °F/°C switchable ranges and display updates every second. Use ON/OFF button to conserve battery life.

**E. Long-Stem Thermometer** has an 8" or 11½" long stem, °F/°C switchable ranges, and display updates every second. Use ON/OFF button to conserve battery life.

**F. Rotating-Display Thermometer** can be angled up to 180° for easy reading. Extra-long 8" stem is ideal for measuring reagents, water baths, air, liquids, and any semisolid. Features °F/°C selection. Use ON/OFF button to conserve battery life.

**G. T-Handle Thermometer** is designed for penetrating semisolids and features °F/°C switchable ranges. Display updates every second. Use ON/OFF button to conserve battery life or auto shutoff at one hour.

**H. Pen-Style Thermometer** has °F/°C switchable ranges and display updates every second. Data Hold button to freeze readings. Use ON/OFF button to conserve battery life.

**I. NIST-Traceable Pen-Style Thermometer** has a unique, flat-profile design. Probe guard snaps into handle to extend the overall length to 10¾" making it ideal for hard-to-reach locations. Features °F/°C switchable ranges, Hold button, display that updates every second, and an ON/OFF button to conserve battery life.



Key letter	Range	Resolution	Accuracy†	Probe diameter	Catalog number	Price
<b>A</b>	–40 to 482°F (–40 to 250°C)	0.1°F (0.1°C)	1.5% ± 2° full scale	4.6"L x 0.16" dia	<a href="#">GY-20250-33</a>	
<b>B</b>	–40 to 482°F (–40 to 250°C)	0.1°F (0.1°C)	1.5% ± 2° full scale	5"L x 0.16" dia	<a href="#">GY-20250-32</a>	
<b>C</b>	14 to 392°F (–10 to 200°C)	0.1° up to 199.9°; 1° above 200°	±1.8°F (±1.0°C)	5"L x 0.14" dia 10"L x 0.14" dia	<a href="#">GY-90003-00*</a> <a href="#">GY-90205-05</a>	
<b>D</b>	–58 to 302°F (–50 to 150°C)	0.1°F (0.1°C)	±1.8°F (1.0°C)	1"L x 0.14" dia	<a href="#">GY-90205-10</a>	
<b>E</b>	–58 to 302°F (–50 to 150°C)	0.1° from –19 to 199.9°; 1° outside this range	±1.8°F (±1°C)	8"L x 0.14" dia	<a href="#">GY-20250-15</a>	
	–58 to 302°F (–50 to 150°C)	0.1° from –19 to 199.9°; 1° outside this range	±0.5°F (±0.2°C)	8"L x 0.14" dia	<a href="#">GY-90205-01</a>	
	–58 to 572°F (–50 to 300°C)	0.1° from –19 to 199.9°; 1° outside this range	±1.8°F (±1°C)	11.5"L x 0.14" dia	<a href="#">GY-94460-40</a>	
	–58 to 302°F (–50 to 150°C)	0.1° from –19 to 199.9°; 1° outside this range	±0.5°F (±0.2°C)	11.5"L x 0.14" dia	<a href="#">GY-90205-02</a>	
<b>F</b>	–58 to 536°F (–50 to 280°C)	0.1° from –20 to 200°F; 1° outside this range	±1.8°F (1.0°C)	8"L x 0.14" dia	<a href="#">GY-90205-25</a>	
<b>G</b>	–58 to 302°F (–50 to 150°C)	0.1° from –19 to 199.9°; 1° outside this range	±1.8°F (±1.0°C)	5.3"L x 0.14" dia	<a href="#">GY-90051-00</a>	
<b>H</b>	–58 to 572°F (–50 to 300°C)	0.1° from –19 to 199.9°; 1° outside this range	±2°F (±1.5°C)	2.5"L x 0.16" dia	<a href="#">GY-90001-02</a>	
<b>I</b>	–58 to 572°F (–50 to 300°C)	0.1° from –20 to 200°F; 1° outside this range	±3°F (1.5°C)	3.5"L x 0.14" dia	<a href="#">GY-90205-15</a>	

\*90003-00 does not come precalibrated †Basic accuracy shown, full accuracy available online

[GY-17003-00](#) NIST-traceable recalibration with data for pocket thermometers

### Digi-Sense® Mini Digital Thermometers with Remote Probe

#### Easily read temperature from a distance

– 304 stainless steel penetration stem

**A. Standard Remote Probe Thermometer** has a 3-ft flexible cord and °F/°C switchable ranges. Magnetic back allows for placement on metal surfaces such as freezers, incubators, or water baths. Includes flip-open stand, and spring fastener for clipping onto any edge.

**B. Deluxe Remote Probe Thermometer** features a 3-ft flexible cord, °F/°C switchable ranges, display updates every second, high/low alarm, Min/Max memory, and Hold function. Magnetic back allows for placement on metal surfaces; freezers, incubators or water baths. Includes a flip-open stand, and spring fastener for clipping onto any edge.

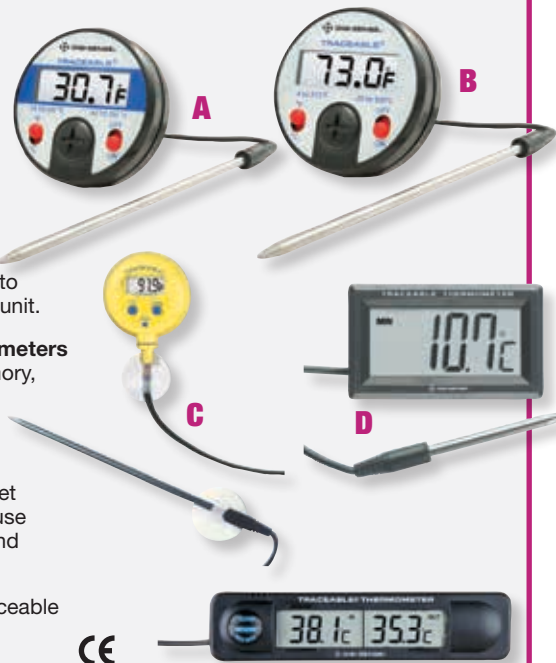
**C. Waterproof Remote Probe Thermometer** has a 10-ft flexible cord, °F/°C switchable ranges, a display that updates every second, and Min/Max memory. Perfect for wet areas—case is water/shockproof and probe is impervious to acid and solvents. Supplied with suction cups, magnet, and self-adhesive hook and loop tabs to attach to any surface.



**D. Panel-Mount Remote Probe Thermometer** features a 10-ft flexible cord, °F/°C switchable ranges, a large easy-view LCD, and records minimum and maximum readings over time. Versatile panel-mount module snaps into place or can be used as a stand-alone unit.

**E. Stick-Style Remote Probe Thermometers** have a 3-ft flexible cord, Min/Max memory, and simultaneous display of probe and ambient temperatures. Meter is chemical-resistant and shockproof; comes with a remote sensor and cable that can be submerged. Use as a pocket thermometer or mount for continuous use with the supplied self-adhesive hook and loop tabs.

**What's included:** battery and NIST-traceable calibration report supplied by the manufacturer.



Key letter	Range	Resolution	Accuracy	Probe	Catalog number	Price	Replacement batteries	
							Cat. no.	Price
A	-58 to 500°F (-50 to 250°C)	0.1°F (0.1°C)	±1°C between -20 to 100°C, otherwise ±1.5° outside range	5½" L x 0.14" dia	<a href="#">GY-90205-20</a>		<a href="#">GY-09376-14</a>	
B	-58 to 572°F (-50 to 300°C)	0.1°F (0.1°C)	±1°C between -20 to 100°C, otherwise ±1.5° outside range	5½" L x 0.14" dia	<a href="#">GY-90205-21</a>		<a href="#">GY-09376-14</a>	
C	-58 to 572°F (-50 to 300°C)	0.1° from -19 to 199.9°; 1° outside this range	±2.0°F (±1°C)	5" L x 0.14" dia	<a href="#">GY-90205-22</a>		<a href="#">GY-09377-16</a>	
D	-58 to 572°F (-50 to 300°C)	0.1° from -20 to 200°; 1° outside this range	±1°C between -20 to 100°C, otherwise ±1.5° outside range	2¾" L x 0.14" dia	<a href="#">GY-90205-26</a>		<a href="#">GY-09376-14</a>	
E	-58 to 158°F (-50 to 70°C)	0.1°F	±1.0°F	0.20" dia	<a href="#">GY-90205-24</a>		<a href="#">GY-09376-14</a>	
		0.1°C	±1.0°C		<a href="#">GY-90205-23</a>			



**Accessories**  
[GY-17003-00](#) NIST-traceable recalibration with data for pocket thermometers

### Digi-Sense® Wireless Thermometer Sets

#### No more cables



- Remote probe measures air, liquid, or solids
- Monitor temperature continuously—data transmitted every 30 seconds

Wireless signal from weatherproof remote sensor broadcasts temperature measurements up to 100 feet in an open area. A total of three modules may be used with the main receiver. Each module is supplied with an internal and external sensor. External sensor can be used under water and is supplied with a 10-ft L cable. Receiver and modules can be switched from °F to °C. The receiver displays data from all three transmitting modules on temperature trends, Min/Max memory and has a alarm function. Supplied with self-adhesive hook and loop tabs and bracket for wall mounting or has a flip-out stand for tabletop use.



94460-84

**What's included:** one receiver, one remote sensor module, probe, two AA batteries, two AAA batteries, mounting hardware, and NIST-traceable calibration report supplied by the manufacturer.

**Accessories**

- [GY-37804-11](#) Additional wireless remote sensor module for model 37804-10, includes two AA batteries
- [GY-94460-79](#) Additional wireless remote sensor module for model 94460-78, includes two AA batteries
- [GY-94460-85](#) Additional wireless remote sensor module for model 94460-84, includes two AA batteries

Description	Wireless thermometer with bottle probe	Wireless thermometer set	Wireless thermometer with humidity set
<b>Catalog number</b>	<a href="#">GY-37804-10</a>	<a href="#">GY-94460-78</a>	<a href="#">GY-94460-84</a>
Temperature	Range	-4 to 140°F (-20 to 60°C)	-58 to 158°F (-50 to 70°C)
	Resolution	0.1°F (0.1°C)	
	Accuracy	±1°F (±1°C)	
Humidity	Range	25 to 90%	
	Resolution	0.01	
	Accuracy	2% RH midrange, otherwise ±4%	
Power	Monitor/receiver: two AAA batteries; Remote sensor module: two AA batteries		
Price			

## Digi-Sense® Monitoring Thermometer with Remote Probe

### Don't lose sight of readings

- Always-on monitoring with 10-foot submersible cable and probe
- Use with liquid, gas/air, and semi-solids



This thermometer has two temperature sensors: a built-in air sensor and an independent external probe sensor. The unit can be switched between °F and °C. Displays air or probe temperature at the touch of a button. The large display updates every 10 seconds.

**What's included:** mounting tape, probe bracket, built-in bench stand, one AAA battery and NIST-traceable calibration report supplied by the manufacturer.

#### Specifications



**Power:** one AAA battery (included)

Range	Resolution	Accuracy	Catalog number	Price
-58 to 158°F (-50 to 70°C)	0.1°F (0.1°C)	±2°F (±1°C)	<a href="#">GY-90000-41</a>	

[GY-09376-00](#) Replacement batteries, AAA. Pack of 12

[GY-17101-61](#) NIST-traceable recalibration with data for digital indicator

## Digi-Sense® Big-Digit "See-Thru" Thermometers

### Monitor temperature continuously

Large 1.2"H digit LCD easily attaches to a window or piece of glass. Attach to the outside of a window to view outdoor temperatures. Simultaneously displays current temperature and daily min/max readings.



**What's included:** NIST-traceable calibration report supplied by the manufacturer, mounting tape, hook and loop strips, and one AAA battery.



#### Specifications



**Power:** one AAA battery (included)

Range	Resolution	Accuracy	Catalog number	Price
-13 to 158°F -25 to 70°C	0.1°F (0.1°C)	±2°F (±1°C)	<a href="#">GY-90080-10</a> <a href="#">GY-90080-11</a>	

[GY-09376-00](#) Replacement batteries, AAA. Pack of 12

[GY-17101-61](#) NIST-traceable recalibration with data for digital indicator

## Digi-Sense® Precalibrated Folding Pocket Thermometer

### No more inaccurate measurements

- Reliable measurements, guaranteed! Precalibrated to NIST-traceable standards
- Take it anywhere—hinged design for folding probe away easily
- Get faster readings with narrow, HACCP compliant probe tip
- Cleans up quickly with rugged, IP67 rated waterproof case



Large, backlit display provides great visibility. Fold up 4"L (101mm) probe adjusts from 0 to 180° for best measurement and viewing angle. Includes °F/°C unit selection, data hold, and min/max functions.

**What's included:** carrying case, two AAA battery and NIST-traceable calibration report with data supplied by InnoCal.



#### Specifications

**Probe dimensions:** 4"L x 0.9"H **Power:** two AAA battery (included)

Range	Resolution	Accuracy	Catalog number	Price
-58 to 544°F (-50 to 290°C)	0.1°F from -58 to 190°F (0.1°C from -50 to 199°C), 1°F from 200 to 554°F (1°C from 200 to 290°C)	±3.6°F from -58 to -4°F (±2.0°C from -50 to -20°C), ±1.8°F from -4 to 212°F (± 1.0°C from -20 to 100°C), ±1% from 212 to 554°F (± 1% from 100 to 290°C)	<a href="#">GY-20250-34</a>	

[GY-09376-00](#) Replacement batteries, AAA. Pack of 12

### Teky's Tips



#### Knowing the Differences

In selecting a digital temperature meter, here are some things to keep in mind:

**Digital Indicators** are used for general purposes such as monitoring the temperature of freezers or displaying ambient temperatures. Their accuracy varies by model, but they are easy to read.

**Thermocouple Meters and Probes** work at a wide range of temperatures at both extremes and are immune to shock and vibration, although they are less accurate than thermistors or RTDs.

**Resistance Temperature Detector (RTD) Meters and Probes** offer excellent accuracy, stability, and repeatability over a wide temperature range but are sensitive to mechanical shock.

**Thermistor Meters and Probes** have exceptional accuracy over ambient and biological temperature ranges, but may be damaged outside the biological range. Thermistor probes are highly sensitive to small temperature changes and can be fragile.

# Temperature

## Digi-Sense® Dual Thermometer with Giant Display

Easy to read from a distance

- °F/°C selectable

Thermometer includes a weatherproof remote sensor to measure remote and ambient temperatures at the same time. Dual display shows both indoor and outdoor temperature readings at the same time. Sits on desktop or can be wall mounted.

**What's included:** probe, one AAA battery, and NIST-traceable certificate supplied by the manufacturer.



### Specifications

**Probe dimensions:** 1" L probe with 10-ft (0.3-m) long cable (included) **Power:** one AAA battery (included)

Range	Resolution	Accuracy	Catalog number	Price
-58 to 158°F (-50 to 70°C)	0.1°F/°C	±2°F (±1°C)	<a href="#">GY-90000-75</a>	

[GY-09376-00](#) Replacement batteries, AAA. Pack of 12  
[GY-17101-61](#) NIST-traceable recalibration with data for digital indicator

## Digi-Sense® Waterproof Digital-Bottle Thermometers

Get more than current temperature

- Displays high/low readings

This fully waterproof unit comes equipped with a stainless steel sensor that assures long product life. Bottle and solution insulate the sensor from rapid changes. Easy-to-read digital display shows current and min/max temperatures by monitoring the high and low readings for any time period.

**What's included:** holder/stand, double-back tape, hook and loop tape, one silver-oxide battery, and NIST-traceable calibration report supplied by the manufacturer.



### Specifications

**Power:** one silver-oxide battery (included)

Description	Bottle fill	Range	Resolution	Accuracy	Catalog number	Price
Standard	Liquid	-22 to 122°F (-30 to 50.0°C)	0.1°F (0.1°C)	±2°F (±1°C)	<a href="#">GY-94460-56</a>	
Standard	Glass beads				<a href="#">GY-94460-58</a>	
High accuracy	Liquid	-22 to 122°F (-30 to 50.0°C)	0.1°F (0.1°C)	±0.8°F (±0.4°C)	<a href="#">GY-94460-57</a>	
High accuracy	Glass beads				<a href="#">GY-94460-59</a>	

[GY-09376-14](#) Replacement battery, 357 silver-oxide coin cell

## Digi-Sense® Thermometer with Alarm/Timer

See more data simultaneously

- View temperature, time, and set point
- Set audible alarm for temperature and time
- Remote, heat-resistant probe

Timer counts down from 24 hours. Built-in alarm for both time and temperature—once the alarm sounds, the timer counts up from set point. Display pivots on magnetic stand or folds flush with stand for convenient storage and wall mounting.

**What's included:** probe and one AAA battery.



### Specifications

**Probe:** 6.5" L x 0.13" dia, stainless steel (SS) probe with 4-ft (1.2-m) L SS straight wire cable (included)  
**Power:** one AAA battery (included)

Range	Resolution	Accuracy	Catalog number	Price
32 to 392°F (0 to 200°C)	2°F (1°C)	±3.6°F (±2°C)	<a href="#">GY-90080-00</a>	

[GY-90080-05](#) Replacement probe  
[GY-09376-00](#) Replacement batteries, AAA. Pack of 12  
[GY-17101-61](#) NIST-traceable recalibration with data for digital indicator

## Cole-Parmer® Panel-Mount Solar-Powered LED Thermometers

Read temperatures of freezers and walk-in coolers!

- NSF (National Sanitation Foundation) certified for food storage areas

Maintenance-free thermometers operate on solar power in light levels above 100 lux, and use a battery back-up below 100 lux. Calibration adjustment is on back of the unit. The 48" (1.2 m) L cable has no lead-containing pigments.



### Specifications

**Resolution:** 0.1°F (0.1°C)  
**Accuracy:** ±1% full-scale  
**Display:** 3½-digit LCD, 0.4"H  
**Probe:** 1" L x 0.203" dia thermistor sensor with 304 SS sheath and Santoprene® covered cable  
**Power:** solar (above 100 lx) with an AAA battery backup

Mounting	Range	Dimensions	Cat. no.	Price
<b>304 stainless steel case</b>				
Panel	-40.0 to 158.0°F (-40.0 to 70.0°C)	0.9"H x 2.0" dia case; 3.0" OD flange	<a href="#">GY-90150-02</a>	
Wall		1.1"H x 2.6" dia case; 3.5" OD flange	<a href="#">GY-90150-22</a>	
U-clamp		1.0"H x 2.0" dia case	<a href="#">GY-90150-42</a>	
<b>Plastic case</b>				
Panel	-40.0 to 158.0°F (-40.0 to 70.0°C)	0.8"H x 2.0" dia case; 3.0" OD flange	<a href="#">GY-90150-04</a>	

## Digi-Sense® Sentry Table/Wall-Mount Thermometers


### Get high, low, and current temperatures

- Monitor temperature continuously

Thermometers include a weatherproof remote sensor with a 10-ft (3-m) long, 1/16"-diameter micro cable. Unplug external probe to monitor ambient temperature. Large LCD updates every 10 seconds, and a simple one-button reset to clear the high/low memory.

Refrigerator/freezer models are supplied with the temperature sensor enclosed in a

glycol-filled bottle, protecting it from rapid temperature changes when refrigerator door is opened. Models 94460-96, -97 have the temperature sensor enclosed in a 5-mL bottle, allowing it to fit into a tray while protecting it from rapid temperature changes.

**What's included:** mounting hardware, one battery, and NIST-traceable calibration report supplied by manufacturer. 



**GY-17101-61** NIST-traceable recalibration with data for digital indicator

Application	Sensor type	Range	Resolution	Accuracy	Catalog number	Price
General purpose	Wire probe	-58 to 158°F	1°F	±1°F	<a href="#">GY-94460-76</a>	
		-50 to 70°C	1°C	±1°C	<a href="#">GY-94460-77</a>	
Refrigerator/freezer	Bottle probe	-58 to 158°F	1°F	±1°F	<a href="#">GY-94460-86</a>	
		-50 to 70°C	1°C	±1°C	<a href="#">GY-94460-87</a>	
Refrigerator/freezer	5-mL bottle probe	-58 to 158°F	1°F	±1°F	<a href="#">GY-94460-96</a>	
		-50 to 70°C	1°C	±1°C	<a href="#">GY-94460-97</a>	

## Digi-Sense® Jumbo-Display Table/Wall-Mount Thermometers

### Read from 30 feet away

- Triple display simultaneously shows maximum, minimum, and current probe temperatures
- Min/max monitors high/low readings overnight, weekends or for any time period
- Alarm alerts when temperature rises above or falls below a set point

Refrigerator/freezer model 94460-82 is supplied with the temperature sensor enclosed in a nontoxic glycol-filled bottle, protecting it from rapid temperature changes when refrigerator door is opened. Model 94460-83 has the temperature sensor enclosed in a 5-mL bottle, allowing it to fit into a tray while protecting it from rapid temperature changes.

**What's included:** Velcro® and magnetic strips, AAA alkaline battery, and NIST-traceable calibration report supplied by manufacturer. 



**GY-09376-00** Replacement batteries, AAA. Pack of 12

**GY-17101-61** NIST-traceable recalibration with data for digital indicator

Application	Sensor type	Range	Resolution	Accuracy	Catalog number	Price
General purpose	Wire probe	-58 to 158°F (-50 to 70°C)	0.1°	±1°	<a href="#">GY-94460-81</a>	
Refrigerator/freezer	Bottle probe				<a href="#">GY-94460-82</a>	
Refrigerator/freezer	5-mL bottle probe				<a href="#">GY-94460-83</a>	

## Digi-Sense® High-Accuracy Table/Wall-Mount Thermometers

### Don't be caught off guard

- Alarm provides alert when temperature rises above or falls below a set point

Display simultaneously shows maximum, minimum, and current probe temperatures. Min/max monitors high/low readings for any time period. Model 94460-74 is supplied with the temperature sensor enclosed in a nontoxic glycol-filled bottle, protecting it from rapid temperature changes when refrigerator door is opened. Model 94460-73 has the temperature sensor enclosed in a 5-mL bottle, allowing it to fit into a tray while protecting it from rapid temperature changes.

**What's included:** Velcro® and magnetic strips, one AAA alkaline battery, and NIST-traceable calibration report supplied by manufacturer. 



**GY-09376-00** Replacement batteries, AAA. Pack of 12

**GY-17101-61** NIST-traceable recalibration with data for digital indicator

Application	Sensor type	Range	Resolution	Accuracy	Catalog number	Price
General purpose	Wire probe	-58 to 158°F (-50 to 70°C)	0.1°	±0.5°	<a href="#">GY-94460-88</a>	
Refrigerator/freezer	Bottle probe				<a href="#">GY-94460-74</a>	
Refrigerator/freezer	5-mL bottle probe				<a href="#">GY-94460-73</a>	

## Temperature

### Digi-Sense® General-Purpose and Refrigerator/Freezer Thermometers

#### Get multiple readings simultaneously

- Simultaneously view high, low, and current temperature
- Keep samples safe—programmable alarm alerts when temperature deviates from set point
- Monitor conditions—Min/Max feature stores the highest and lowest readings until cleared
- Get more done—monitor multiple applications with dual-probe units
- Versatile units are mountable on wall or benchtop



**Standard Refrigerator/Freezer Thermometers** provide accurate readings even when door is opened, as temperature sensor is enclosed within a glycol-filled bottle.

**Advanced Thermometers** feature high accuracy, one-button field calibration, and date/time stamp. Unit displays the exact time and date when thermometer alarms are triggered. RTD thermometers provide greater accuracy and a unique Min/Max feature that displays temperatures for previous 24 hours (each hour) or previous 31 days (for each day).

**Data Logging Thermometers** record up to 525,600 data points to be transferred to a computer using a USB flash drive. The alarm tracking feature stores up to 10 unique alarm events. "Memory lock" option does not allow the internal memory to be cleared, and logging capacity increases to 1 million data points.

**What's included:** one AA battery and NIST-traceable calibration report supplied by manufacturer.



Application	Sensor type	Range	Resolution	Accuracy	Power	Catalog number	Price	
<b>A. Standard thermistor models</b>								
Refrigerator/freezer	One bottle probe	-58 to 158°F (-50 to 70°C)	1°	±1°C	One AA battery (included)	<a href="#">GY-94460-72</a>		
Refrigerator/freezer	One 5-mL bottle probe					<a href="#">GY-94460-71</a>		
General purpose	One wire probe					<a href="#">GY-94460-70</a>		
<b>B. Advanced thermistor models with improved accuracy (not shown)</b>								
Refrigerator/freezer	Two bottle probes	-58 to 158°F (-50 to 70°C)	0.01°	±0.30°C	One AA battery (included)	<a href="#">GY-94460-92</a>		
General purpose	Two wire probes					<a href="#">GY-94460-91</a>		
General purpose	One solid SS probe					<a href="#">GY-94460-98</a>		
General purpose	Two solid SS probe					<a href="#">GY-94460-99</a>		
<b>C. Advanced thermistor models with improved accuracy and data logging (not shown)</b>								
Refrigerator/freezer	One bottle probe	-58 to 158°F (-50 to 70°C)	0.01°	±0.25°C	One AA battery (included)	<a href="#">GY-94460-07</a>		
Refrigerator/freezer	Two bottle probes					<a href="#">GY-94460-09</a>		
General purpose	One wire probe					<a href="#">GY-94460-11</a>		
General purpose	Two wire probes					<a href="#">GY-94460-14</a>		
General purpose and refrigerator/freezer	One wire and one bottle probe					<a href="#">GY-94460-18</a>		
General purpose	One solid SS probe					<a href="#">GY-94460-16</a>		
General purpose	Two solid SS probes					<a href="#">GY-94460-17</a>		
<b>D. Advanced thermistor models with improved accuracy and "memory lock" data logging</b>								
Refrigerator/freezer	One bottle probe	-58 to 158°F (-50 to 70°C)	0.01°	±0.25°C	One AA battery (included)	<a href="#">GY-94460-37</a>		
Refrigerator/freezer	Two bottle probes					<a href="#">GY-94460-39</a>		
General purpose	One wire probe					<a href="#">GY-94460-41</a>		
General purpose	Two wire probes					<a href="#">GY-94460-43</a>		
General purpose and refrigerator/freezer	One wire and one bottle probe					<a href="#">GY-94460-47</a>		
General purpose	One solid SS probe					<a href="#">GY-94460-44</a>		
General purpose	Two solid SS probes					<a href="#">GY-94460-46</a>		
<b>E. Advanced RTD high-accuracy models</b>								
Refrigerator/freezer	One bottle probe	-58 to 158°F (-50 to 70°C)	0.01°	±0.1°C	One AA battery (included)	<a href="#">GY-37803-88</a>		
General purpose	One wire probe					<a href="#">GY-37804-03</a>		
General purpose	One wire probe					-148 to 158°F (-100 to 70°C)	<a href="#">GY-37804-05</a>	
General purpose	One solid SS probe					-148 to 199.99°F (-100 to 199.99°C)	<a href="#">GY-37804-04</a>	

# Digi-Sense® Remote-Monitoring Thermometers

## Measure within doored equipment

- Won't affect door seal—ideal for use in remote measurement applications
- High-impact, chemical-resistant ABS plastic case
- NIST-traceable for more accuracy



**What's included:** Probe, carrying case, one 9 V battery, and NIST-traceable calibration report supplied by the manufacturer.

Scale	Type	Range	Resolution	Accuracy	Power	Catalog number	Price
<b>Thermocouple meter</b>							
Fahrenheit	Single input, K	-58 to 1382°F	0.1°F	±(2°F + 0.75%) between 32 to 932°F, and ±(2°F + 1%) between 933 to 1382°F. Below 32°F accuracies are -4 ± 8°F, -40°F ± 8°F, and -58°F ± 10°F	One 9 V battery	<a href="#">GY-86460-03</a>	
Celsius	Single input, K	-50 to 750°C	0.1°C	±(1°C + 0.75%) between 0 to 500°C, and ±(1°C + 1%) between 500 to 750°C. Below 0°C, accuracies are -20 ± 2°C, -40°C ± 4°C, and -50°C ± 5°C		<a href="#">GY-86460-05</a>	
<b>RTD meter</b>							
Celsius	100 Ω RTD	-99 to 199°C	0.1°C	±2°C	One 9 V battery	<a href="#">GY-86460-06</a>	

[GY-08439-62](#) General-purpose thermocouple type K probe, 4.5" L

[GY-08515-01](#) Thermocouple type K probe; flexible insulated-wire, 3-ft L

[GY-17002-10](#) NIST-traceable recalibration with data for thermocouple system (meter with probe)

# 1° Matters

## Calibrate to ensure accuracy of your instrumentation

### Temperature Meter, Probe, and System Calibrations

Thermometry type	NIST-traceable report for:	Meter only calibration		Probe only calibration		System (meter and probe) calibration	
		Cat. no.	Price	Cat. no.	Price	Cat. no.	Price
Thermocouple, standard types	Four test points across range of instrument. Meter: -270 to 2316°C (-454 to 4200°F); Probe and System: -80 to 1000°C (-112 to 1832°F). Actual range is dependent on type of probe.	<a href="#">GY-17000-10</a>		<a href="#">GY-17001-10</a>		<a href="#">GY-17002-10</a>	
Thermocouple, cryogenic	Low temperature to -197°C (-322°F)	—	—	—	—	<a href="#">GY-17103-25</a>	
Thermistor	Four test points across range of instrument. Meter, probe, and system: -80 to 150°C (-112 to 302°F)	<a href="#">GY-17000-06</a>		<a href="#">GY-17001-06</a>		<a href="#">GY-17002-06</a>	
RTD	Four test points across range of instrument. Meter: -200 to 1000°C (-328 to 1832°F); Probe and System: -80 to 1000°C (-112 to 1832°F). Actual range is dependent on type of probe.	<a href="#">GY-17000-04</a>		<a href="#">GY-17001-04</a>		<a href="#">GY-17002-04</a>	
Infrared	Four test points across range, -15 to 500°C (5 to 932°F)	<a href="#">GY-17004-00</a>		<a href="#">GY-17004-10</a>		<a href="#">GY-17004-20</a>	
Infrared calibrator	Multiple test points across range, -30 to 1000°C (-22 to 1832°F)	<a href="#">GY-17002-19</a>		—	—	—	—
Bimetal or dial	Four test points across range, -197 to 1000°C (-320 to 1832°F)	—	—	—	—	<a href="#">GY-17003-00</a>	
Glass thermometers	2 to 4 test points across thermometer range 5 to 9 test points across thermometer range 10 to 15 test points across thermometer range	—	—	<a href="#">GY-17006-03</a> <a href="#">GY-17006-05</a> <a href="#">GY-17006-06</a>		—	—

InnoCalSolutions.com

**INNOCAL**®  
INNOVATIVE CALIBRATION SOLUTIONS

## Temperature

# Oakton® Temp-Series Thermometers

## Keep hands free during measurements

- Available in Thermocouple, Thermistor or RTD configuration
- Exclusive, 3-way hands-free operation with easy-to-read screen with backlight
- Withstand the toughest conditions—splash-resistant ABS plastic
- Individually calibrated and easy-to-use automatic field calibration ensures accurate readings
- Data logging models log up to 2000 sets of readings in real time with time-and-date stamp

**Single-Input Thermometers (Temp-10, -14, -16)** feature an easy-to-use control panel; Min/Max and Hold functions; °F/°C selection; auto shutoff; and low-battery indicator.

**Dual-Input Thermometer (Temp-100)** is designed for either single or simultaneous dual readings. Store up to 1000 sets of readings in the nonvolatile memory. Take differential temperature measurements with the T1/T2 function. Meter resolution is keypad selectable.

**Data Logging Thermometers (Temp-300, -340, -360)** can manually store or automatically log up to 2000 sets of readings in real time, and data can be downloaded to your PC via a USB port. Log interval is selectable from 1 second to 60 minutes. Meter also features Min/Max, Hold, and average functions; °F/°C selection; time stamp/clock; countdown timer, and out-of-range alarm with audible/visible indicator; auto shutoff; and low-battery indicator. Temp-300 also features dual inputs; take differential temperature measurements with the T1/T2 function. Meter resolution is keypad selectable.

**What's included:** protective rubber armor boot with built-in stand and three AA batteries.



Temp-340 data logging thermometer 91426-50



### Specifications

- Power:** three AA batteries (included)
- Models 91426-50 and -60, 91427-50:**
  - Data logging: 2000 real-time readings, with time-and-date stamp
  - Logging interval: 1 second to 60 minutes
  - Output: USB

Description	Range	Resolution	Accuracy	Catalog number	Price
<b>Thermocouple meters</b>					
Temp-10 single input	Type J: -346 to 2192°F (-210 to 1200°C)	0.1°F/°C between -199.9 to 999.9°, 1° below -199.9° and above 999.9°	Below -238°F (-150°C): ±0.25% of reading ±2°F (±1°C) Above -238°F (-150°C): ±0.1% of reading ±0.7°F (±0.4°C)	<a href="#">GY-91427-00</a>	
	Type K: -418 to 2501°F (-250 to 1372°C)			<a href="#">GY-91427-10</a>	
	Type T: -418 to 752°F (-250 to 400°C)			<a href="#">GY-91427-20</a>	
Temp-100 dual input	Type J: -346°F to 2192°F (-210°C to 1200°C) Type K: -418°F to 2501°F (-250°C to 1372°C) Type T: -418°F to 752°F (-250°C to 400°C) Type E: -418°F to 1832°F (-250°C to 1000°C)	0.1°F/°C between -99.9 to 999.9°, 1° below -99.9° and above 999.9°	Below -148°F (-99.9°C): ±0.25% of reading ±2°F (±1°C) Above -148°F (-99.9°C): ±0.1% of reading ±0.7°F (±0.4°C)	<a href="#">GY-91427-40</a>	
Temp-300 dual input with data logging	Type J: -346 to 2192°F (-210 to 1200°C) Type K: -418 to 2501°F (-250 to 1372°C) Type T: -418 to 752°F (-250 to 400°C) Type E: -418 to 1832°F (-250 to 1000°C) Type R: 32 to 3214°F (0 to 1768°C) Type S: 32 to 3214°F (0 to 1768°C) Type N: -418 to 2372°F (-250 to 1300°C) Type B: 392 to 3272°F (200 to 1800°C)	0.1°F/°C between -199.9 to 999.9°, 1° below -199.9° and above 999.9°	Type J, K, T, E, and N: ±0.25% of reading ±2°F (±1°C) below -148°F (-99.9°C), ±0.1% of reading ±0.7°F (±0.4°C) above -238°F (-150°C) Type R, S, and B: ±0.1% of reading ±2°F (±1°C)	<a href="#">GY-91427-50</a>	
<b>Thermistor meters</b>					
Temp-14 single-input	-40.0 to 302.0°F (-40.0 to 150.0°C)	0.1°F/°C	From -40.0 to 257.0°F (-40.0 to 125.0°C): ±0.4°F (±0.2°C) From 257.0 to 302.0°F (125.0 to 150.0°C): ±0.9°F (±0.5°C)	<a href="#">GY-91426-00</a>	
Temp-340 single-input with data logging	-40.00 to 302.0°F (-40.00 to 150.0°C)	0.01 or 0.1°F/°C; auto-ranging to 0.1° above +99.99°	From -40.00 to 99.99°F (-40.00 to 99.99°C): ±0.06°F (±0.03°C) From 100.0 to 257.0°F (100.0 to 125.0°C): ±0.1°F (±0.1°C) From 257.0 to 302.0°F (125.0 to 150.0°C): ±0.9°F (±0.5°C)	<a href="#">GY-91426-50</a>	
<b>RTD meters</b>					
Temp-16 single-input	-328 to 1562°F (-200 to 850.0°C)	From -328 to -148°F (-200 to -100°C): 1°F/°C From -148 to -392°F (-99.9 to -199.9°C): 0.1°F/°C From 392 to 1562°F (200 to 850°C): 1°F/°C	From -328 to -148°F (-200 to -100°C): ±4°F (±2°C) From -148 to -392°F (-99.9 to -199.9°C): ±0.4°F (±0.2°C) From 392 to 1562°F (200 to 850°C): ±4°F (±2°C)	<a href="#">GY-91426-20</a>	
Temp-360 single-input with data logging	-330 to 2210°F (-201 to 1210°C)	From -330 to -100°F/°C: 0.1°F/°C From -99.99 to 99.99°F/°C: 0.1°F/°C Above 1000°F/°C: 0.1°F/°C	From -330 to -100°F/°C: ±0.1°F/°C From -99.99 to 99.99°F/°C: ±0.06°F/±0.03°C Above 1000°F/°C: ±1°F/°C	<a href="#">GY-91426-60</a>	

### Accessories

[GY-35427-85](#) Oakton "Hands-Free" option includes two magnets and hook-and-loop strap

[GY-35427-80](#) Replacement boot with built-in stand

# Don't Get Burned—Gain More Confidence in Your Readings

## Digi-Sense® Precalibrated Thermocouple Thermometers

- Compact, affordable units provide accurate and dependable readings
- No need to worry about reading measurements—large, backlit LCD makes readings easy
- Choose the model that's right for you

### General-Purpose Thermocouple Thermometers

Meters accept both type K or J thermocouple probes with miniconnector. The two- and four-channel models provide data logging of up to 18,000 readings; USB interface lets you easily download data to a PC for analysis with included software.

### Professional Thermocouple Thermometers with IR Input

These durable meters deliver accurate readings in an ergonomic design. Models accept type K probes and an optional infrared (IR) wand for non-contact measurements from a distance. Two- and four-channel models continually scan each channel for real-time measurements. Data logging models allow you to download and analyze data fully.

**What's included:** type K bead wire temperature probe (one for each input), batteries, and NIST-traceable calibration report with data supplied by InnoCal. Data logging models also include USB cable and software.



20250-01

20250-17



Description	General-purpose thermometers			Professional thermometers with IR input			
	GY-20250-01	GY-20250-02	GY-20250-03	GY-20250-18	GY-20250-17	GY-20250-19	GY-20250-20
Catalog number	GY-20250-01	GY-20250-02	GY-20250-03	GY-20250-18	GY-20250-17	GY-20250-19	GY-20250-20
Thermocouple (T/C) inputs	1 (type K or J)	2 (type K or J)	4 (type K or J)	1 (type K)	2 (type K)	2 (type K)	4 (type K)
Infrared (IR) input	No			Yes, with optional IR wand 20250-24 (order below)			
T/C range	K: -328 to 2501°F (-200 to 1372°C) J: -346 to 2012°F (-210 to 1100°C)			K: -328 to 2501°F (-200 to 1372°C)			
IR range	—			-31 to 1022°F (-35 to 550°C)			
Resolution	0.1°F/C below 1000°, 1°F/C above 1000°			0.1°F/C below 1000°, 1°F/C above 1000°			
T/C accuracy	Above -148°F (-100°C): ±[0.5% rdg + 1.8°F (1°C)] Below -148°F (-100°C): ±[0.5% rdg + 3.6°F (2°C)] Differentials: ±[0.5% rdg + 3.6°F (2°C)]			Above -148°F (-100°C): ±[0.15% rdg + 1.8°F (1°C)] Below -148°F (-100°C): ±[0.5% rdg + 3.6°F (2°C)] Differentials: ±[0.5% rdg + 1.8°F (1°C)]			
	—			Above 14°F (-10°C): ±[2.0% rdg + 3.6°F (2°C)]; Below 14°F (-10°C): ±9°F (5°C); T/C-IR differentials: ±[2.0% rdg + 5.4°F (3°C)] above 14°F (-10°C); ±11°F (6°C) below 14°F (-10°C)			
IR accuracy	—			—			
Data logging	No	18,000 points		No	18,000 points		10,000 points
USB interface	No	Yes		No	Yes		Yes
Temp differential	No	Yes		Yes			
Scan function	No			No	Yes		
Dimensions	6½" x 2½" x 1½" (16.5 x 6.4 x 2.9 cm)			8" x 3" x 2" (20.1 x 7.5 x 5 cm)			
Price							

### Accessories

**GY-20250-24** Optional infrared wand for Professional thermocouple thermometers only. Features 8:1 distance-to-spot ratio. Measures 6½" x 2" x 1½" (16.4 x 5 x 4 cm). Includes one 9 V battery

**GY-09376-00** Replacement batteries, AAA. Pack of 12

**GY-09376-04** Replacement batteries, 9V. Pack of 4



Optional IR wand 20250-24

- ✓ **Save time and money**—precalibrated to NIST-traceable standards before you receive it
- ✓ **Don't let probe errors interfere** with readings—electronic offset compensates for errors
- ✓ **Choose your readout**—measures in °F, °C, or Kelvin (K) with 0.1 resolution
- ✓ **Features for your convenience:**
  - Min/Max/Avg
  - Hold
  - Relative time stamp
  - Auto-off to save battery life
- ✓ **Take measurements from a distance** with **optional infrared wand** on Professional series

Precalibration provided by

**INNOCAL®**

Precalibration | Recalibration | Onsite  
[InnoCalSolutions.com](http://InnoCalSolutions.com)

## Temperature

### Digi-Sense® Scientific Thermistor and RTD Thermometers

#### Get more accuracy from your thermometer

- Display one, two, or three significant figures after the decimal point
- Available in thermistor or RTD versions
- Download data to computer for further analysis



Meter features a splashproof membrane keypad, Memory and Hold functions, an internal data logger that captures the Min/Max temperature every hour for a 24-hour period, and °F/°C selection. The fast-response general-purpose penetration probe (included) displays even the slightest temperature change instantly. Readings are updated three times a second.

**What's included:** General-purpose penetration probe, plastic carrying case, one 9 V battery, and NIST-traceable calibration report supplied by the manufacturer.

Model	Description	Cat. no.	Price
4000 (USB)	Single-input thermistor thermometer with USB input general-purpose probe	<a href="#">GY-90080-09</a>	
6412 (USB)	Single-input RTD thermometer with USB input general-purpose probe	<a href="#">GY-37804-06</a>	
6413 (USB)	Single-input RTD thermometer with USB input flexible wire bullet probe	<a href="#">GY-37804-07</a>	
<b>Probes</b>			
4021	Micro probe for model 4000 USB	<a href="#">GY-90080-19</a>	
4111	Replacement general-purpose probe for model 4000 USB	<a href="#">GY-90080-18</a>	
6422	Replacement general-purpose probe for model 6412 USB	<a href="#">GY-37804-08</a>	
6423	Replacement flexible wire bullet probe for model 6413 USB	<a href="#">GY-37804-09</a>	

#### Specifications

**Range:** -58 to 302°F (-50 to 150°C)  
**Resolution:** 0.001°  
**Accuracy:** ±0.05°C between 0.0 to 100°C  
**Output:** USB  
**Dimensions (W x H x D):** 5½" x 3½" x 1¼"  
 (140 x 89 x 32 mm)  
**Power:** One 9 V battery (included)



#### Accessories

- [GY-90080-21](#) Data acquisition with USB cable
- [GY-90225-22](#) AC adapter
- [GY-90225-29](#) Padded carrying case
- [GY-09376-04](#) Replacement batteries, 9V. Pack of 4

[GY-17002-06](#) NIST-traceable calibration with data for meter and probe

[GY-17002-04](#) NIST-traceable calibration with data for RTD meter and probe

### Digi-Sense® Thermocouple Thermometer

#### Don't wait for measurements

- Fast-response microprocessor updates the display twice a second
- Water-resistant case
- NIST-traceable calibration for more accuracy

The meter features Recall, Min/Max, Hold, °F/°C selectable units, count-up timer, and high/low alarm. Accepts type K thermocouple probes with miniconnector. Backlighting button permits reading in dark areas.

**What's included:** beaded-wire type K probe, three AAA batteries, and NIST-traceable calibration report supplied by the manufacturer.



#### Specifications

**Resolution:** 0.1°F/°C between -199 to 1369°F (-128 to 742°C) outside range resolution 1°F/°C  
**Accuracy:** ±1° from -58 to 1364°F (-50 to 740°C), otherwise ±2°  
**Power:** three AAA batteries (included)

Type	Range	Catalog number	Price
Single input, K	-328 to 2498°F (-200 to 1370°C)	<a href="#">GY-91210-30</a>	

### Digi-Sense® Workhorse Thermocouple Thermometer

#### Get accurate measurements, affordably

- NIST-traceable for more accuracy

Adjustable offset lets you adjust the thermometer exactly to a specific temperature, in-house calibration, or particular sensor for increased accuracy. Workhorse features Hold button, °F/°C selectable units, and auto power-off. Accepts every type K thermocouple probe with miniconnector.

**What's included:** one type K probe (5" L x ⅛" dia tip), bench stand, carrying case, one 9 V battery, and NIST-traceable calibration report supplied by the manufacturer.



#### Specifications

**Resolution:** 0.1° between -50.0 to 200°C and 1° otherwise  
**Accuracy:** ±(1°C + 0.75%) from 0 to 500°C; ±(1°C + 1%) from 500 to 750°C; ±(1°C + 2%) from 750 to 1000°C; ±(3°C + 4%) from 1000 to 1200°C; ±2°C at -20°C; ±3°C at -40°C; and ±4°C at -50°C  
**Power:** one 9 V battery (included)

Type	Range	Catalog number	Price
Single input, K	-58 to 2372°F (-50 to 1300°C)	<a href="#">GY-91210-45</a>	

## Digi-Sense® Two-Channel Thermocouple Thermometer

### Protect against accidental damage

- Front-panel offsets for temperature adjustment
- Rubberized case, wrist strap, and built-in stand
- NIST-traceable

Large LCD shows temperatures of probe 1, probe 2, or the difference (delta) of the two probes. Rubberized case makes the meter weather- and shockproof. Product features include Max, Hold, T1, T2, delta (T1-T2), °F/°C selectable units, and on/off buttons. Accepts type K thermocouple probes with miniconnector.

**What's included:** two beaded-wire type K probe, PVC protective casing with flip-out stand, one 9 V battery, and NIST-traceable calibration report supplied by the manufacturer.



### Specifications

- Resolution:** 1°F/°C
- Accuracy:** ±0.3% + 0.1°C
- Power:** one 9 V battery (included)

Type	Range	Catalog number	Price
Dual input, K	-58 to 2000°F (-50 to 1300°C)	<a href="#">GY-91210-31</a>	

### Accessories

- [GY-08439-62](#) General-purpose thermocouple type K probe, 4.5" L (11.4 cm)
- [GY-08515-01](#) Thermocouple type K; flexible insulated-wire probe, 3 ft L (7.6 cm)
- [GY-09376-04](#) Replacement batteries, 9 V. Pack of 4
- [GY-17002-10](#) NIST-traceable recalibration for thermocouple system (meter and probe)

## 12-Channel Data Logging Thermocouple Thermometer with SD Card

### Get twelve readings instantly

- Use existing thermocouples—accepts types J, K, T, E, S, and R
- Get more accurate readings with automatic temperature compensation
- Capture and download data easily—up to 20,000 records via 2GB SD card
- No additional software needed to analyze data



Stream data directly to a computer using the RS-232 port on the meter. Additional meter features include Min/Max, hold, offset adjustment, loop data recording, sampling interval, date-and-time stamp, temperature unit of measure, period or comma decimal point division, auto power off, and low-battery indicator.

**What's included:** Two type K bead wire temperature probes, 2 GB SD card, and hard carrying case.



Model number	DT4208SD
Catalog number	<a href="#">GY-37803-08</a>
Range	Type J: -148 to 2102°F (-100 to 1150°C) Type K: -148 to 2372°F (-100 to 1300°C) Type T: -148 to 752°F (-100 to 400°C) Type E: -148 to 1652°F (-100 to 900°C) Type R: 32 to 3092°F (0 to 1700°C) Type S: 32 to 2732°F (0 to 1500°C)
Resolution	Types J, K, T, E: 0.1° below 1000°F (537°C) and 1° above 1000°F (537°C) Types R, S: 1°
Accuracy	Types J, K, T, E: ±0.4% of reading +2° max Types R, S: ±0.5% of reading +2° max
Data logging	Auto store up to 20,000 records using 2 G SD card
Output	SD card and RS-232 interface
Dimensions (W x H x D)	5" x 8¾" x 2½" (125 x 225 x 64 mm)
Power	Eight AA batteries or 9 VDC AC adapter
Price	

### Accessories

- [GY-37803-70](#) SD card reader with USB interface
- [GY-37803-09](#) 9 VDC adapter for 110 VAC power supply
- [GY-09376-01](#) Batteries, AA. Pack of 4
- [GY-17002-10](#) NIST-traceable calibration with data for thermocouple meter and probe

## Knowing the Differences

In selecting a digital temperature meter, here are some things to keep in mind:

**Digital Indicators** are used for general purposes such as monitoring the temperature of freezers or displaying ambient temperatures. Their accuracy varies by model, but they are easy to read.

**Thermocouple Meters and Probes** work at a wide range of temperatures at both extremes and are immune to shock and vibration, although they are less accurate than thermistors or RTDs.

**Resistance Temperature Detector (RTD) Meters and Probes** offer excellent accuracy, stability, and repeatability over a wide temperature range but are sensitive to mechanical shock.

**Thermistor Meters and Probes** have exceptional accuracy over ambient and biological temperature ranges, but may be damaged outside the biological range. Thermistor probes are highly sensitive to small temperature changes and can be fragile.

## Teky's Tips



## Temperature

### 12-Channel Scanning Thermocouple Thermometer

#### Don't lose your data

- Store and recall up to 4680 sets of readings with time and date
- Bidirectional RS-232 for setup or PC data logging
- Field calibrate each probe separately
- RF immunity—maintains accuracy in RF fields

Each of the 12 thermocouple inputs is programmable and can be adjusted to scan from every four seconds to every hour. Link units in series to expand the number of channels you can scan. Meter also features a built-in real-time clock, RS-232 output, parallel printer connection, and graphing software.

Accepts thermocouple probes with miniconnector for quick and easy probe changes.



#### Specifications

**Resolution:** 0.1°/1° selectable up to 999.9°; 1° above 1000° and below -150°F/°C

**Accuracy:**

J, K, T, E, N: ±0.1% of reading, ±0.8°F (±0.5°C) above -240°F (-150°C); ±0.25% of reading, ±2°F (±1°C) below -240°F (-150°C)  
 R, S, B: ±0.1% of reading, ±4°F (±2°C)

**Digital output:**

RS-232, parallel printer output; DB25F connector

**Scan rate:** from 4 seconds/12 channels to 99 minutes 59 seconds/12 channels

**Dimensions (L x W x H):**

7½" x 10½" x 3½" (19.1 x 26.7 x 8.9 cm)

Type	Range	Power	Cat. no.	Price
Twelve inputs; J, K, T, E, N, R, S, B	J: -392 to 1832°F (-200 to 1000°C) K: -418 to 2501°F (-250 to 1372°C) T: -418 to 752°F (-250 to 400°C) E: -418 to 1832°F (-250 to 1000°C) N: -418 to 2372°F (-250 to 1300°C) R: 32 to 3214°F (0 to 1768°C) S: 32 to 3214°F (0 to 1768°C) B: 392 to 3272°F (200 to 1800°C)	115 VAC, 50/60 Hz	<a href="#">GY-92000-00</a>	
		230 VAC, 50/60Hz	<a href="#">GY-92000-05</a>	

**Accessories**

[GY-17003-00](#) NIST-traceable calibration with data

### Economical Type J/K Thermocouple Thermometers

#### One meter accepts both type J and K probes

- Read two temperatures simultaneously and differential with dual-input meter

Features include Min/Max, Hold, °F/°C selectable units, relative temperature, and auto power-off after 30 minutes of inactivity to save on battery power. Available in single and dual input, with results displayed on a large 1¼" x 1¼" LCD. Order optional probes and other accessories separately.

**What's included:** beaded-wire probe (two probes for 94461-12) and one 9 V battery.



#### Specifications

**Accuracy:**

From -200 to 200°F/°C and above 400°F/°C: ±0.3% of reading + 2°F/1°C  
 All other temperatures: ±0.5% of reading + 2°F/1°C

**Resolution:** 0.1°F (0.1°C)

**Power:** one 9 V battery (included)



Type	Range	Catalog number	Price
Single input; J, K	J: -328 to 1922°F (-200 to 1050°C)	<a href="#">GY-94461-11</a>	
Dual input; J, K	K: -328 to 2498°F (-200 to 1370°C)	<a href="#">GY-94461-12</a>	

[GY-08439-60](#) General-purpose thermocouple type J probe, 4.5" (11.4 cm) L

[GY-08439-62](#) General-purpose thermocouple type K probe, 4.5" (11.4 cm) L

[GY-08515-00](#) Thermocouple type J probe, flexible insulated-wire, 3 ft (0.9 m) L

[GY-08515-01](#) Thermocouple type K probe, flexible insulated-wire, 3 ft (0.9 m) L

[GY-94461-25](#) Water-resistant pouch

[GY-09376-04](#) Replacement batteries, 9 V. Pack of 4

[GY-17002-10](#) NIST-traceable calibration for thermocouple system (meter and probe)

## Compact Foodservice Thermocouple Thermometers

### Don't risk food contamination

- Ideal for use in the food industry
- IP55-rated waterproof case is shock-resistant

The use of an advanced internal microprocessor that updates every five seconds and a highly accurate type T thermocouple produces an accuracy of  $\pm 0.8\%$ . Unit features a Hold function,  $^{\circ}\text{F}/^{\circ}\text{C}$  selectable units, and auto power-off after 15 seconds of inactivity to save on battery power.

**What's included:** CR-2032 battery, and NIST-traceable calibration report supplied by the manufacturer.



91210-35

91210-36



### Specifications

**Resolution:**  
 0.2°F (0.1°C) from -76 to 390°F (-60 to 199°C);  
 1°F/°C for remaining

**Accuracy:**  $\pm 1.4^{\circ}\text{F}$  ( $\pm 0.8^{\circ}\text{C}$ ) or  $\pm 0.8\%$  whichever is greater

**Power:** one CR-2032 battery (included)

Type	Range	Catalog number	Price
Single input, T, remote	-58 to 660°F	<a href="#">GY-91210-35</a>	
Single input, T, attached	(-50 to 350°C)	<a href="#">GY-91210-36</a>	

[GY-09376-17](#) Replacement battery, CR-2032. Pack of 6  
[GY-17002-10](#) NIST-traceable recalibration for thermocouple system (meter and probe)

## Compact J/K/T/E Thermocouple Thermometers

### Stop replacing batteries

- Available in single- and dual-channel models
- Water- and shock-resistant housing for use in tough conditions
- Battery lasts up to 5 years

This advanced internal microprocessor produces an accuracy of  $\pm 0.5^{\circ}\text{F}$  with multifunctional meters featuring Max/Min, Hold,  $^{\circ}\text{F}/^{\circ}\text{C}$  selectable units, adjustable sampling rate, and large LCD. Available in single- and dual-channel, both capable of accepting any type of J, K, T, and E thermocouple probes with miniconnector. Dual-channel model also features T1, T2, and delta (T1-T2). Probes are sold separately.

**What's included:** long-life lithium battery and NIST-traceable calibration report supplied by the manufacturer.



Meter 91210-40



### Specifications

**Resolution**  
 J: 0.2°F (0.1°C) from -140 to 374°F (-100 to 190°C)  
 T: 0.2°F (0.1°C) from -148 to 428°F (-100 to 220°C)  
 K: 0.2°F (0.1°C) from -330 to 482°F (-200 to 250°C)  
 E: 0.2°F (0.1°C) from -140 to 302°F (-100 to 150°C)  
 Remaining range: 1°F (1°C)

**Accuracy**  
 J: 0.5°F (0.3°C) from -58 to 374°F (-50 to 190°C)  
 T: 0.5°F (0.3°C) from -58 to 428°F (-50 to 220°C)  
 K: 0.5°F (0.3°C) from -140 to 482°F (-100 to 250°C)  
 E: 0.5°F (0.3°C) from -58 to 302°F (-50 to 150°C)  
 Remaining range:  $\pm 0.5\%$  of reading

Type	Range	Catalog number	Price
Single input	J: -140 to 1470°F (-100 to 800°C) T: -50 to 570°F (-50 to 300°C)	<a href="#">GY-91210-39</a>	
Dual input	K: -330 to 2190°F (-200 to 1200°C) E: -140 to 1110°F (-100 to 600°C)	<a href="#">GY-91210-40</a>	

## Compact Waterproof RTD Thermometers

### Maintain accuracy even in harsh environments

- IP67-rated case is water- and impact-resistant
- Corrosion-resistant stainless steel probe

Multifunction models offer Max/Min and Hold functions, plus a 100  $\Omega$  sensor for greater accuracy. Available with a choice of pre-installed probes.

**What's included:** probe, NIST-traceable calibration report supplied by manufacturer, and one 3.0 V lithium battery.



90111-15

90111-11



Probe	Range	Resolution	Accuracy	Catalog number	Price
<b>Compact 100 <math>\Omega</math> RTD thermometers</b>					
Blunt tip	-58 to 572°F (-50.0 to 300°C)	0.2°F (0.1°C)	$\pm 0.5^{\circ}\text{F} \pm 1$ digit ( $\pm 0.3^{\circ}\text{C} \pm 1$ digit)	<a href="#">GY-90111-10</a>	
Penetration tip				<a href="#">GY-90111-11</a>	
Remote sensor with penetration tip				<a href="#">GY-90111-12</a>	
<b>Multifunction compact 100 <math>\Omega</math> RTD thermometers</b>					
Blunt tip	-148 to 932°F (-100 to 500°C)	0.4°F (0.02°C) from -148 to 212°F (-99.98 to 99.98°C); 0.2°F (0.1°C) from 212 to 932°F (100 to 500°C)	$\pm 0.3^{\circ}\text{F}$ ( $\pm 0.5^{\circ}\text{C}$ ) from -58 to 214°F ( $\pm 0.3^{\circ}\text{F}$ ( $\pm 0.2^{\circ}\text{C}$ ) for remaining range	<a href="#">GY-90111-13</a>	
Penetration tip				<a href="#">GY-90111-14</a>	
Remote sensor with penetration tip	-148 to 752°F (-100 to 400°C)			<a href="#">GY-90111-15</a>	

## Temperature

### Entry-Level Single- and Dual-Input Thermocouple Thermometers

Keep a hand free—easy one-handed operation

- Meet any basic temperature measurement need

#### TM100 Features

- Side-mounted controls for one-handed operation
- Accepts both K and J thermocouple probes
- Data Hold function freezes reading on display
- Min/Max/Avg readings with relative time stamp
- Offset key used for zero function to make relative measurements
- Readout in °F, °C, or K (Kelvin)
- Auto power off with disable feature

#### TM300 Additional Features

- Dual input
- Temperature differential, T1, T2, T1–T2

**What's included:** Type K bead wire temperature probe. Model TM100 also has one 9 V battery. Model TM300 also has a carrying pouch and three AAA batteries.



### Data Logging 4-Channel Thermocouple and RTD Thermometer with SD Card Memory

Stress-free data transfer

- Easily transfer data to PC with 2G SD card
- Data logging capability up to 20,000 records with real-time/date stamp
- User programmable sampling rate from 1 to 3600 seconds
- Manual store and recall of up to 99 records
- Read up to four different temperatures with four channel inputs

Features include Min/Max and hold functions, temperature differential, offset adjustment, time-and-date stamp, auto power off, and low-battery indication.

**What's included:** type K beaded wire temperature probe, 2 GB SD card, USB cable, carrying case, and six AA batteries.



Model number	TM100	TM300
Catalog number	<a href="#">GY-95001-25</a>	<a href="#">GY-95001-35</a>
Number of inputs	1	2
Range	Type K: -328 to 2501°F (-200 to 1372°C) Type J: -346 to 2012°F (-210 to 1100°C)	
Resolution	0.1°/1°	
Accuracy	±0.15% of reading (1.8°F/1°C)	
Power	One 9 V battery	Three AAA batteries
Price		

[GY-09376-00](#) Replacement batteries, AAA. Pack of 12

[GY-09376-04](#) Replacement batteries, 9V. Pack of 4

[GY-17002-10](#) NIST-traceable calibration with data for meter with probe

#### Specifications

**Resolution:** 0.1°F (0.1°C)

**Data logging:** manual store/recall of up to 99 records; auto store up to 20,000 records using 2G SD card

**Output:** SD card and RS-232 interface

**Power:** six AA batteries

Range	Accuracy	Cat. no.	Price
Type J: -346 to 2012°F (-210 to 1100°C); Type K: -328 to 2501°F (-200 to 1372°C); Type T: -58 to 752°F (-50 to 400°C); Type E: -58 to 1652°F (-50 to 900°C); Type R: 32 to 3092°F (0 to 1700°C); Type S: 32 to 2732°F (0 to 1500°C) RTD (100 Ω Pt): -327 to 162°F (-200 to 850°C)	Types J, K, T, E: ±0.4% rdg (+1.8°F/+10°C) Types R, S: ±0.5% rdg (+2°F/+1°C)	<a href="#">GY-95001-32</a>	

[GY-37803-70](#) SD card reader with USB interface

[GY-17002-10](#) NIST-traceable calibration with data for thermocouple system (meter and probe)

### EasyView® Thermocouple Thermometers

Stop squinting to read data

- Large display makes reading measurements easy

**Model 95001-05** is a single-input type K thermometer which features store/recall of 150 readings, Avg, relative functions, Min/Max, Hold, °F/°C selectable units, and auto power off.

**Model 95001-06** is a dual-input type K thermometer which offers the same features as 95001-05; plus an offset function for relative measurement, temperature differential between two probes (T1–T2), timer, elapsed time, time of reading, min/max, backlit display, and °F/°C/K selectable units.

**Model 95001-07** is a dual-input thermometer with datalogger which offers the same features as 95001-06. This meter also includes a datalogger that can store up to 8800 data points and download via bidirectional RS-232 interface.

**What's included:** type K thermocouple probe (one for each input). Model 95001-07 also includes two type K probes, RS-232 cable, and software.



Probe	Data logger	Range	Resolution	Accuracy	Power	Catalog number	Price
Single input, type K	No	-58 to 1999°F (-50 to 1300°C)	0.1°F/C below 200°, 1°F/C above 200°	±0.3% of reading, +2°F (+1°C)	Six AAA batteries (included)	<a href="#">GY-95001-05</a>	
Dual input, type K	No	-200 to 1999°F (-200 to 1360°C)	0.1°F/C below 200°, 1°F/C above 200°	±0.3% of reading, +2°F (+1°C)		<a href="#">GY-95001-06</a>	
Dual input; types J, K, T, E, R, S, N	Yes	-200 to 1994°F (-200 to 1090°C)	0.1°F/C below 200°, 1°F/C above 200°	±0.05% of reading, ±1.5°F (0.75°C)		<a href="#">GY-95001-07</a>	

## Waterproof Thermocouple Thermometer

### Store cord and probe easily

- Snap and unwind cord easily to reach up to three feet away
- Impact-resistant, waterproof design
- Use one handed or by detaching the probe for remote use

This highly accurate, type K thermocouple thermometer has a two-second response time. The meter features °F/°C selectable units, continuous sampling mode, and the ability to be field calibrated. Meter is supplied with a probe, but will accept any type K thermocouple with a miniconnector

**What's included:** integral type K probe with penetration tip, belt clip, and one 9 V battery.



#### Specifications

**Resolution:** 0.1°F/°C up to 199°F (99°C); 1°F/°C for rest of range      **Power:** One 9V battery (included)  
**Accuracy:** ±1°F/°C from 0 to 270°F (0 to 132°C),  
 ±3°F from 270 to 500°F (132 to 260°C),  
 ±1% remaining range

Type	Range	Catalog number	Price
Single input, type K	-40 to 500°F (-40 to 260°C)	<a href="#">GY-91210-50</a>	

[GY-09376-04](#) Replacement batteries, 9 V. Pack of 4

[GY-17002-10](#) NIST-traceable calibration for thermocouple system (meter and probe)



91210-50

Probe snaps onto the back of the meter for one-handed measuring.

## Waterproof Thermocouple Thermometers

### No need to keep recalibrating

- Optimal choice for accuracy and maximum durability in foodservice applications
- Memory stores the calibration settings

Each instrument features selectable °F/°C units, on/off button and easy twist-open watertight battery hatch. Advanced model 90025-08 additional features include a back light, user-selectable resolution, hold function that freezes the current reading, and the ability to disable the auto-off function. Model 90025-18 features temperature stabilization mode and can record up to 250 readings in memory. The AquaTuff can be used with any type K thermocouple probe with a standard miniconnector.

**What's included:** calibration document supplied by the manufacturer and two AAA batteries.



#### Specifications

**Resolution:** 0.1°F/°C (0.1, 1°F/°C; user selectable for model 90025-08)  
**Accuracy:** ±0.5°F (±0.3°C) across entire range at ambient from 8 to 86°F (20 to 30°C)  
**Power:** two AAA batteries (included)

Type	Range	Catalog number	Price
Single input, K	-100 to 999°F (-73 to 537°C)	<a href="#">GY-90025-07</a>	
Advanced features, single input, K		<a href="#">GY-90025-08</a>	
Advanced temperature stabilization, single input	--100 to 500°F (-73 to 260°C)	<a href="#">GY-90025-18</a>	

#### Probes

Description	Range	Catalog number	Price
Micro-needle probe	-100 to 500°F (-73 to 260°C)	<a href="#">GY-90025-14</a>	
Extra-rugged needle probe	-40 to 500°F (-40 to 260°C)	<a href="#">GY-90025-13</a>	
Needle probe	-40 to 500°F (-40 to 260°C)	<a href="#">GY-90025-16</a>	
Weighted griddle-surface probe	500°F (260°C) max	<a href="#">GY-90025-09</a>	
120° angled surface probe	-40 to 500°F (-40 to 260°C)	<a href="#">GY-90025-11</a>	
Pipe clamp probe	-20 to 300°F (-29 to 149°C)	<a href="#">GY-90025-12</a>	



#### Wait! There's More...

For probes compatible with our wide selection of thermocouple meters, see pages 954-960.

Order your Product with  
**NIST-Traceable Calibration**  
 InnoCalSolutions.com

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 INNOVATIVE CALIBRATION SOLUTIONS

# Temperature

## Foodservice Thermocouple Thermometer

Ensure food safety with antimicrobial protection

- IP67-rated case is water- and dustproof
- NSF-approved with BioCote® antimicrobial protection

Designed to accept any type K thermocouple probe with miniature connection. This thermometer produces a high degree of accuracy with a rapid response time. The meter features °F/°C selectable units, data hold, auto-off function, clock, multifunction countdown timer, and built-in protective boot.

The thermometer has an IP67-rated case with BioCote antimicrobial protection—ideal for use in the food industry and is an accepted part of HACCP standards. BioCote is an antimicrobial agent that is impregnated into the case during molding, effectively inhibiting the growth of micro-organisms.

**What's included:** protective boot, certificate of conformity, and two AA batteries.



### Specifications

**Resolution**  
 Below 100°F (100°C): 0.1°  
 Above 100°F (100°C): 1°

**Accuracy:** ±0.1% of reading, ±0.4°F/±0.2°C

**Power:** two AA batteries (included)

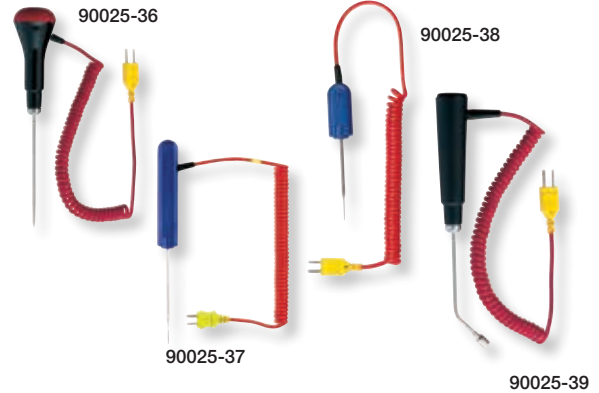
Type	Range	Catalog number	Price
Single input, K	-328 to 1112°F (-200 to 600°C)	<a href="#">GY-90025-34</a>	

- [GY-90025-41](#) Wall bracket for 90025-34
- [GY-09376-01](#) Replacement batteries, AA. Pack of 4
- [GY-17002-10](#) NIST-traceable calibration for thermocouple system (meter and probe)

## Foodservice Thermocouple Probes

Get quick readings to ensure safety

- Most probes have a response time of under 0.5 seconds
- Include a 3-foot coil cord



Description	Range	Catalog number	Price
Food-penetration thermocouple type K probe with 1.6-mm penetration tip	-58 to 482°F (-50 to 250°C)	<a href="#">GY-90025-36</a>	
Frozen food penetration thermocouple type K probe with 1.6-mm penetration tip	-58 to 482°F (-50 to 250°C)	<a href="#">GY-90025-37</a>	
Food-penetration thermocouple type K probe with 1.1-mm penetration tip	-58 to 482°F (-50 to 250°C)	<a href="#">GY-90025-38</a>	
Grill surface food thermocouple type K probe with 45° crank	-58 to 482°F (-50 to 250°C)	<a href="#">GY-90025-39</a>	

[GY-17001-10](#) NIST-traceable calibration for thermocouple probe; with test data

## Waterproof Thermocouple Thermometers

Ensure safer handling

- BioCote® antimicrobial protection reduces cross-contamination
- IP67-rated case is water- and dustproof
- Interactive menu allows for easy selection of all features

Thermometers have a high degree of accuracy, rapid response time, and exceptional battery life. All models feature °F/°C selectable units, data Hold, and auto-off function.

Model 90025-25 accepts type K and T thermocouples, and includes a clock, countdown timer, and multiple alarm functions. This meter also features a long-life 10-year battery (nonreplaceable).

Model 90025-30 has dual inputs that accept eight thermocouple types, displays in °F, °C and °K and includes a min/max function and temperature differential for maximum versatility.

**What's included:** certificate of conformity and batteries.



### Specifications

**Resolution**  
 Below 1832°F (1000°C): 0.1°  
 Above 1832°F (1000°C): 1°

**Accuracy:** ±0.1% of reading, ±0.4°F / ±0.2°C

**Power**  
 Model 90025-30: two AA batteries (included)  
 Model 90025-25: one long-life battery (included)

Type	Range	Catalog number	Price
Single input; K, T	K: -328 to 2501°F (-200 to 1372°C) T: -328 to 752°F (-200 to 400°C)	<a href="#">GY-90025-25</a>	
Dual input; B, E, J, K, T, R, S, N	B: 392 to 3272°F (200 to 1800°C) E: -328 to 1032°F (-200 to 1000°C) J: -328 to 2192°F (-200 to 1200°C) K: -328 to 2502°F (-200 to 1372°C) T: -328 to 752°F (-200 to 400°C) R: -58 to 3212°F (-50 to 1767°C) S: -58 to 3212°F (-50 to 1767°C) N: -328 to 2372°F (-200 to 1300°C)	<a href="#">GY-90025-30</a>	

- [GY-90025-40](#) Protective rubber boot
- [GY-90025-45](#) Carrying case
- [GY-09376-01](#) Replacement batteries, AA. Pack of 4
- [GY-17002-10](#) NIST-traceable calibration for thermocouple system (meter and probe)

## Multichannel RTD and Thermocouple Thermometer with Wireless Capability

### Measure up to five temperatures simultaneously

- Use both RTD and thermocouple probes
- When fully equipped, five temperature probes can be registered: three wireless probes and two attachable probes
- Keep hands free with embedded magnets on back

These meters offer such functions as timed and multipoint mean calculation, differential temperature measurement, Min/Max value, Hold, and audible alarm settings.

Model 86460-16 also features three user-selectable profiles—standard, route, and longterm—each tailored to suit typical applications. This logging model stores up to 10,000 readings. PC software and cable included.

Use of wireless probes requires wireless upgrade kit and type K thermocouple adapter head.



#### Specifications

Probe	Range†	Resolution	Accuracy
RTD	–328 to 1472°F (–200 to 800°C)	0.05°F (0.05°C)	±0.2% of rdg from –148 to 390°F (–100 to 199°C), ±0.4°F (±0.2°C) for remaining range
Type K thermocouple	–328 to 2498°F (–200 to 1370°C)	0.1°F (0.1°C)	±0.3°F (±1.5°C) from –140 to 140°F (–60 to 60°C), ±0.5% of mv for remaining range
Type T thermocouple	–58 to 750°F (–50 to 399°C)		

†Range depends on the probe being used.

#### Meters

Description	Power	Catalog number	Price
Multichannel temperature meter with wireless capability	Three AA batteries (included)	<a href="#">GY-86460-15</a>	
Multichannel temperature meter with data logging and wireless capabilities		<a href="#">GY-86460-16</a>	

#### Probes

Type	Range	Catalog number	Price
Waterproof penetration probe (RTD)	–58 to 750°F (–50 to 399°C)	<a href="#">GY-86460-10</a>	
Laboratory glass-coated/corrosion-resistant probe (RTD)	–58 to 750°F (–50 to 399°C)	<a href="#">GY-86460-11</a>	
Waterproof penetration probe (type K thermocouple)	–76 to 750°F (–60 to 400°C)	<a href="#">GY-37486-08</a>	
Wireless penetration probe (type K thermocouple)	–76 to 750°F (–60 to 400°C)	<a href="#">GY-37486-04</a>	

#### Accessories

[GY-37486-02](#) Wireless upgrade kit includes one T/C wireless handle and one wireless module

[GY-37486-12](#) NIST-traceable calibration with data for thermocouple system (meter and probe)

[GY-17002-04](#) NIST-traceable calibration with data for RTD system (meter and probe)

## Multi-Input Thermocouple Thermometers

### Read up to four values simultaneously

- Store up to 16,000 data points with data logging models
- Easily transfer data to PC with RS-232 port
- Know your temperature differential—automatically
- Calculated on 4-input models

Each meter features Min/Max, Hold, °F/°C selectable units, zero point adjustment, tripod screw, relative temperature (model 94461-30), and auto power-off to save on battery power.

**What's included:** two type K beaded-wire thermocouples, foam-lined case, and one 9 V battery. Model 94461-35 also includes a RS-232 cable and software.



#### Specifications

**Resolution:** 0.1°F (0.1°C)

**Accuracy:** ±2°F (±1°C) full-scale, ±0.5% of reading

**Output:** bidirectional RS-232

**Power:** one 9 V battery (included) or optional AC adapter

Type	Data logger	Range	Catalog number	Price
Four inputs, K	No	–328 to 2498°F (–200 to 1370°C)	<a href="#">GY-94461-30</a>	
Four inputs, K	Yes		<a href="#">GY-94461-35</a>	

#### Accessories

[GY-08516-55](#) General-purpose thermocouple type K probe; 5" (12.7 cm) L

[GY-94461-25](#) Water-resistant pouch

[GY-94461-61](#) AC adapter, 115 VAC

[GY-01618-51](#) Benchtop tripod

[GY-01618-52](#) Field tripod

[GY-94461-60](#) RS-232 cable for 94461-30

[GY-09376-04](#) Replacement batteries, 9 V. Pack of 4

[GY-17002-10](#) NIST-traceable calibration for thermocouple system (meter and probe)

**1° Matters**  
**Calibrate**  
to ensure accuracy

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### Digi-Sense® TempTestr® Infrared Thermometer

Take quick surface temperatures affordably



- Get readings in less than 1 second
- Point, press button, and read
- Selectable °F/°C reading

**Super-Mini TempTestr** includes built-in pocket clip, wrist strap, and two batteries.



**Min TempTestr** includes metal case, wrist strap, and spare battery.



Model	Super-Mini TempTestr	Mini TempTestr
Cat. no.	<a href="#">GY-39642-01</a>	<a href="#">GY-39642-00</a>
Range	-27 to 230°F (-33 to 110°C)	-30 to 430°F (-33 to 220°C)
Resolution	0.5°F (0.2°C) of reading	0.5°F (0.2°C) of reading
Accuracy	±2.5% of reading or 3.6°F (2.0°C)	±2% of reading or ±4°F (2°C)
Response time	Less than one second for 95% of reading	Less than one second
Emissivity	0.95 fixed	Adjustable from 0.01 to 1.00
Distance-to-target ratio	1:1	1:1
Power	Two LR44/359 batteries (included)	One 3V battery (included)
Price		

### Food Safety Infrared Thermometer

Get quick readings with a pull of the trigger

- Measure surface temperature quickly and accurately
- Eliminate the risk of cross-contamination with noncontact measurement

This thermometer is calibrated to provide high accuracy (±2°F) throughout the HACCP critical temperature range of 40 to 140°F (4 to 60°C). Laser sighting pinpoints the center of the measurement area.

**What's included:** one 9 V battery.



Model	Food safety IR thermometer
Catalog number	<a href="#">GY-39641-20</a>
Range	-25 to 400°F (-30 to 200°C)
Resolution	1°F (0.5°C)
Accuracy	Below 32°F (0°C): ±2°F (±1°C) + 0.1° per degree below 32°F (0°C) From 32 to 150°F (0 to 65°C): ±2°F (±1°C) Above 150°F (65°C): 1.5% of reading
Response time	≤500 msec, 95% of reading
Emissivity	preset at 0.97
Laser sighting	Single point, offset Class II
Distance-to-target-size ratio	4:1
Power	One 9 V battery (included)
Price	

[GY-09376-04](#) Replacement batteries, 9 V. Pack of 4

[GY-39641-95](#) Carrying case, belt-mount

[GY-17004-00](#) NIST-traceable calibration with data for infrared thermometers

### Digi-Sense® Food Safety Infrared Thermometers

Eliminate contamination and food spoilage

- Read temperature with IR in less than 1 second
- Colored LEDs identify whether food is within safe ranges
- Get internal temperatures with probe thermometer on model 35625-40



Choose the **Food Safety IR Thermometer** for reading surface temperatures to 400°F (200°C).

Unit is made of hand-washable IP54 housing. The **Multifunction Food Safety Thermometer** includes infrared and swing-out penetration probe for measuring internal food temperatures.



Model	Food safety IR thermometer	Multifunction food safety thermometer
Catalog number	<a href="#">GY-35625-45</a>	<a href="#">GY-35625-40</a>
Mode	Infrared	Infrared Contact (probe)
Range	-30 to 200°C (-20 to 400°F)	-35 to 275°C (-30 to 525°F) -40 to 200°C (-40 to 390°F)
Resolution	0.2°C (0.2°F)	0.2°C/°F 0.2°C/°F
Accuracy	±1°C (±2°F) between 0 to 65°C (32 to 150°F)	±1°C (±2°F) from 0 to 65°C (32 to 150°F) ±0.5°C (±1°F) from 0 to 65°C (32 to 150°F)
Response time	500 msec, 95% response	500 msec 5 sec
Emissivity	0.97 fixed	Preset at 0.97
Laser sighting	White LED (non-laser)	White LED (non-laser)
Distance-to-target-size ratio	2.5:1	2.5:1
Power	One 9 V battery (included)	One 9 V battery (included)
Price		

[GY-35625-70](#) Replacement probe

[GY-86106-10](#) Antimicrobial sanitizing wipes. Box of 100



## Digi-Sense® Precalibrated Infrared Stick Thermometers



Get quick and easy, one-button reading

- Reliable measurements, guaranteed! Precalibrated to NIST-traceable standards
- Unique ergonomic stick-style design fits comfortably in your hand
- Water- and dust-resistant IP54 rating
- Laser sighting to pinpoint the center of the measurement area
- Safely and easily locate hot and cold spots, preventing problems and saving costs

**NEW**



Just point the thermometer at your target and push one button! Unit features temperature range of –18 to 302°C (0 to 575°F) and ±2% basic accuracy. Other features include automatic data Hold, selectable °C/°F units, fixed emissivity, and backlit display.

**What's included:** lanyard, 9 V battery, and NIST-traceable calibration report with data supplied by InnoCal.

Description	Precalibrated IR stick thermometers	
Catalog number	<a href="#">GY-20250-09</a>	<a href="#">GY-35625-16</a>
Range	0 to 575°F (–18 to 302°C)	
Resolution	0.1°F/C	
Accuracy	±3.6°F (2°C) or ±2% of reading	
Response time	Less than 500 ms	
Emissivity	Fixed at 0.95	
Laser sighting	Single laser	
Distance-to-sight ratio	8:1	4:1
Power	One 9 V battery (included)	
Dimensions (L x W x H)	7" x 1¼" x 1½" (17.8 x 4.4 x 3.8 cm)	
Price		

### Accessories

- [GY-35625-80](#) Soft carrying case
- [GY-09376-04](#) Replacement batteries, 9 V. Pack of 4

## Digi-Sense® Precalibrated Infrared Thermometers

Save money and prevent breakdowns—easily locate hot and cold spots

- Reliable measurements—guaranteed! Precalibrated to NIST-traceable standards
- Get easy readings from a distance—just aim, pull trigger and read!
- Continuous scanning via trigger lock

**General-Purpose Infrared Thermometers** feature Min/Max and Hold functions, °F/°C selectable units, single targeting laser, and large backlit LCD for easy reading. Models 20250-05 and -06 also offer adjustable emissivity and temperature alarm with indicator.

**Professional Infrared Thermometers** provide high distance-to-sight ratio and enhanced temperature range in a heavy-duty housing. Get a more precise measurement area with dual targeting lasers and external type K thermocouple (one included). Min/Max/Avg and Hold, temperature differential, high/low alarms, °F/°C selectable units, adjustable emissivity, datalogging, and more!



Protective lens cover with magnetic lock

20250-08

20250-05

Description	General-purpose infrared thermometers			Professional infrared thermometers	
	<a href="#">GY-20250-04</a>	<a href="#">GY-20250-05</a>	<a href="#">GY-20250-06</a>	<a href="#">GY-20250-07</a>	<a href="#">GY-20250-08</a>
Range (IR)	–4 to 630°F (–20 to 332°C)	–31 to 1000°F (–35 to 537°C)	–31 to 1472°F (–35 to 800°C)	–58 to 3002°F (–50 to 1650°C)	–58 to 3362°F (–50 to 1850°C)
Resolution	0.1°F/C	0.1°F/C below 1000°, 1°F/C		0.1°F/C below 1000°, 1°F/C above 1000°	
Response time	Less than 1 second	Less than 300 ms			Less than 150 ms
Distance-to-sight ratio	10:1	12:1	20:1	30:1	50:1
Emissivity	0.95 fixed	0.10 to 1.0 adjustable			0.10 to 1.0 adjustable
Laser sighting	Single Class II laser			Dual Class II laser	
Temperature alarm	No	Yes		Yes	
Temp differential	No			Yes	
USB interface	No			Yes (cable and software included)	
Data logging	No			Yes, 100 internal readings	
Power	One 9 V battery			One 9 V battery	
Price					

[GY-09376-04](#) Replacement batteries, 9 V. Pack of 4

Save time, save money!

**Choose Precalibrated**  
Includes a data-rich, ISO 17025 certificate—no additional charge!

Precalibrated by **INNOCAL**  
INNOVATIVE CALIBRATION SOLUTIONS

## Digi-Sense® “2-in-1” Waterproof Infrared Thermometer

### Quickly check food zone compliance

– IP65-rated waterproof housing

Includes stainless steel type K thermocouple probe for internal temperature checks, and IR mode for quick, noncontact surface measurements. Bright white LED pointer illuminates the target measurement area. Features adjustable emissivity, Fahrenheit or Celsius selectable units, min/max, auto data hold, lock function for continuous scanning, and auto off.



**What's included:** two AAA batteries.



Description	2-in-1 IR thermometer	
<b>Catalog number</b>	<a href="#">GY-35625-41</a>	
Mode	Infrared	Contact (thermocouple)
Range	-67 to 482°F (-55 to 250°C)	-67 to 626°F (-55 to 330°C)
Resolution	0.5°F (0.2°C)	0.5°F (0.2°C)
Accuracy	±0.1°F from -27 to 32°F (-33 to 0°C), ±1°F from 32 to 149°F (0 to 65°C), ±1.5% of reading from 149 to 572°F (65 to 300°C)	±0.5°F from 15 to 212°F (-9 to 100°C), remaining ±0.9% of reading
Emissivity	Preset at 0.95 (adjustable from 0.10 to 1.00)	—
Sighting	White LED (non-laser)	—
Distance-to-target ratio	2.5:1	—
Power	Two AAA batteries (included)	
<b>Price</b>		

[GY-86106-10](#) Antimicrobial sanitizing wipes. Box of 100

[GY-09376-00](#) Replacement batteries, AAA. Pack of 12

[GY-17004-00](#) NIST-traceable calibration report with data for infrared thermometers

## Infrared Thermometers with Wide Temperature Range

### Won't fail under tough conditions

#### All models feature:

- Large LCD with bright backlight
- Laser pointer provides better aim and accuracy
- Auto-hold activates when the measurement trigger is released
- Adjustable high/low alarm alerts user visually and audibly (except for 90415-29)
- Min/Max/Avg °F/°C display selection, auto power-off and low battery indication
- Adjustable emissivity (except for 90415-29)

#### Model 95001-18 adds:

- Dual laser
- Type K input (includes bead wire probe)
- LCD with basic graph
- Memory stores up to 100 readings
- Temperature differential (IR vs T/C)
- USB interface

**What's included:** Carrying case and 9 V battery. Model 95001-18 also includes software, USB cable, tripod, and probe.



95001-18



Description	Wide-range IR thermometers			IR thermometer with contact probe
	<a href="#">GY-90415-29</a>	<a href="#">GY-90415-14</a>	<a href="#">GY-90415-21</a>	
<b>Catalog number</b>	<a href="#">GY-90415-29</a>	<a href="#">GY-90415-14</a>	<a href="#">GY-90415-21</a>	<a href="#">GY-95001-18</a>
Distance-to-target ratio	6:1	12:1	50:1	50:1
Range (infrared)	-4 to 500°F (-20 to 260°C)	-58 to 1200°F (-50 to 650°C)	-58 to 1832°F (-50 to 1000°C)	-58 to 3992°F (-50 to 2200°C)
Range (thermocouple)	—	—	—	-58 to 2498°F (-50 to 1370°C)
Resolution	0.1°F/°C	0.1°F/°C	0.1°F/°C	0.1°F/°C
Accuracy (infrared)	±2% reading or ±4°F/2°C (whichever is greater)	±1% of reading or ±2°F/1°C (whichever is greater)	±2% of reading or ±4°F/2°C (whichever is greater)	±1% of reading or ±2°F/1°C (whichever is greater)
Accuracy (thermocouple)	—	—	—	±1.5% reading + 5°F/3°C
Emissivity	0.95 fixed	0.1 to 1 adjustable	0.10 to 1.00 adjustable	0.10 to 1.00 adjustable
Power	9 V battery	9 V battery	9 V battery	9 V battery, AC for base
<b>Price</b>				

[GY-90415-32](#) Tripod for model 95001-18

[GY-08516-55](#) General-purpose thermocouple type K probe

[GY-09376-04](#) Replacement batteries, 9 V. Pack of 4

[GY-17004-00](#) NIST-traceable calibration report with data for infrared thermometers

## Dual Laser Infrared Thermometers

Get easier targeting with dual lasers

- Increase measurement accuracy for different surfaces with adjustable emissivity
- Adjustable High/Low set points with audible alarm alerts user when temperature exceeds the programmed set points
- Lock function for continuous readings
- Model 42509 also features a blue backlit dual LCD that changes to red when reading exceeds high or low set points



## Dual Laser Infrared Thermometer with Humidity and Dew Point

No more calculating dew point

- Unit measures temperature and humidity, then calculates dew point
- Know when readings are complete via color indicating display
- Reduce false alarms with dual laser targeting system
- Selectable °F/°C units, current and maximum readings, auto hold, and auto power off



Model number	42512	42511	42509
Catalog number	<a href="#">GY-90440-64</a>	<a href="#">GY-90440-69</a>	<a href="#">GY-90440-84</a>
Distance-to-target ratio	30:1	12:1	12:1
Range	-58 to 1832°F (-50 to 1000°C)	-58 to 1100°F (-50 to 500°C)	-4 to 950°F (-20 to 510°C)
Resolution	0.1°F/°C	0.1°F/°C	0.1°F/°C
Accuracy	2%	2%	2%
Response time	150 ms	150 ms	150 ms
Emissivity	0.10 to 1.00 Adjustable	0.10 to 1.00 Adjustable	0.10 to 1.00 Adjustable
Power	One 9 V battery		
Price			

[GY-09376-04](#) Replacement batteries, 9 V. Pack of 4

[GY-17004-00](#) NIST-traceable calibration report with data for infrared thermometers

Model number	IRT600
Catalog number	<a href="#">GY-86531-08</a>
Distance-to-target ratio	12:1
IR temperature range	-22 to 662°F (-30 to 350°C)
Air temperature range	32 to 122°F (0 to 50°C)
Temperature accuracy	±1% of reading + 2.7°F (1.5°C)
Temperature resolution	0.1°F/°C
Temperature repeatability	±1.5°F (1°C)
Humidity range	20 to 80%
Humidity accuracy	±3.5%
Emissivity	Fixed at 0.95
Power	One 9 V battery
Price	

[GY-09376-04](#) Replacement batteries, 9 V. Pack of 4

[GY-17004-00](#) NIST-traceable calibration report with data

## Dual Laser Close Focus Infrared Thermometer

Measure temperature near or far

- Optional ambient humidity, temperature, and dew point module

Built-in port accepts type K thermocouple with miniconnector. Adjustable emissivity, min/max and average, high and low audible and visual alarm limits, automatic data hold, backlit display, and auto off. Data logging capability up to 90 measurements, then transfer the data to a PC via USB. Use the unique optional integrated humidity module (35639-46) to measure ambient conditions including humidity (% RH), temperature, and dew point (°Ctd).

**What's included:** software, USB cable, tripod mounting bracket, carrying case, wrist strap, calibration report supplied by manufacturer, and two AA batteries.



Model	Infrared thermometer
Catalog number	<a href="#">GY-35639-44</a>
Range	-30 to 1750°F (-35 to 950°C)
Resolution	0.1° of reading
Accuracy	±2.5° from -31 to -4°F (-35 to -20.1°C), ±1.5° from -4 to 68°F (-20 to 19.9°C), ±0.75° from 68 to 210°F (20 to 99.9°C), ±0.75 % of mV from 210 to 1742°F (100 to 950°C)
Response time	150 msec
Emissivity	Adjustable 0.1 to 1.0
Laser sighting	Cross-point laser, IEC and FDA Class II
Distance-to-target ratio	Close focus: 1 mm at 70 mm (spot at 3"); Far field: 75:1 (16 mm at 1200 mm) (7" at 4 ft)
Power	Two AA batteries (included)
Price	



### Accessories

[GY-35639-46](#) Humidity module

[GY-37486-18](#) Surface type K thermocouple probe; -58 to 932°F (-50 to 500°C)

[GY-37486-12](#) Infrared printer. Includes one roll of paper

[GY-92600-46](#) Replacement paper, 10-year legibility. Pack of 6 rolls

[GY-09376-01](#) Replacement batteries, AA. Pack of 4

[GY-17004-00](#) NIST-traceable calibration report with data for infrared thermometer

## Temperature

### Cole-Parmer® High-Temperature Specialty Infrared Thermometers Measure temperatures up to 3275°F (1800°C)

- Models 39800-30, -32, and -33 with 120:1 distance-to-target-size ratio provide accurate measurements over large distances
- Take temperature measurements in both bright-light and low-light areas with model 39800-35
- Specialty thermometers are designed specifically for glass, plastics, or metals applications

Thermometers display minimum, maximum, differential temperature, and average temperature in °F or °C. Other features include adjustable emissivity, recall, backlit display, and an audible and visual alarm. Lock the trigger for long-term monitoring. Store up to 100 temperature readings at selectable time intervals with built-in data logger.

**Scope Thermometers** feature a through-the-lens optical system and a circular reticle to precisely define the target area.

**Laser Sighting Thermometers** are ideal for determining the center of the area you are measuring—laser spots on the target indicate the approximate diameter. Use single-laser models for long-range measurements; dual and crossed laser models have lasers that are aligned with the thermometer's optics. Choose from two laser types—class IIIa for maximum brightness, or class II when low-power lasers are required.

**Specialty Thermometers** are scope or laser sighting thermometers with optimized spectral responses for specific applications; each model provides a precise sighting system. The glass model is designed for use in glass manufacturing; the plastics models are ideal for thin film plastics applications (under 0.4 mm) such as lamination and film orientation; the metals models are ideal for forging, forming, and extruding operations. The metals models are not recommended for use with aluminum.

**What's included:** four AA batteries, padded nylon carrying case, shoulder strap, and manual.



Specialty infrared thermometer 39800-42 is designed for thin film plastics applications.

Model 39800-35 features scope and laser sighting.



#### Specifications

**Resolution:** 1°F/°C (0.1°F/°C in AVG mode up to 999°)  
**Accuracy:** ±1% of reading or ±1.5°F (±1°C), whichever is greater at or above 32°F (0°C); ±4°F (±2°C) below 32°F (0°C)†  
**Response time:** 700 milliseconds  
**Emissivity:** adjustable from 0.10 to 1.00 in 0.01 increments

**Output:**  
 Analog: 1 mV/°F or °C  
 Digital: RS-232, 9600 baud; output interval adjustable from 1 to 9999 seconds (order cable below)  
**Power:** four AA batteries (included)  
 †Accuracies taken at 73°F ±9°F (23°C ±5°C) operating ambient.

#### Scope and Laser Sighting Thermometers

Range	Sighting type	Laser sighting	Maximum power	Distance-to-target size ratio	Catalog number	Price
-20 to 2200°F (-30 to 1200°C)	Scope	—	—	75:1	<a href="#">GY-39800-00</a>	
	Dual lasers	FDA Class II	<1 mW	75:1	<a href="#">GY-39800-02</a>	
	Dual lasers	FDA Class IIIa	<5 mW	75:1	<a href="#">GY-39800-03</a>	
	Crossed lasers	FDA Class II	<1 mW	Close range: 75:1	<a href="#">GY-39800-22</a>	
	Crossed lasers	FDA Class IIIa	<5 mW		<a href="#">GY-39800-23</a>	
	Scope	—	—	120:1	<a href="#">GY-39800-30</a>	
	Single laser	FDA Class II	<1 mW		<a href="#">GY-39800-32</a>	
	Single laser	FDA Class IIIa	<5 mW		<a href="#">GY-39800-33</a>	
	Scope and single laser	FDA Class II	<1 mW		<a href="#">GY-39800-35</a>	

#### Specialty Infrared Thermometers with Scope or Laser Sighting

Application	Temperature range	Sighting type	Laser class	Maximum power	Spectral response	Distance-to-target size ratio	Catalog number	Price
Glass	300 to 3275°F (150 to 1800°C)	Scope	—	—	5 µm nominal	50:1	<a href="#">GY-39800-40</a>	
Thin film plastics	50 to 1450°F (10 to 800°C)	Dual laser	FDA Class II	<1 mW	7.9 µm nominal	25:1	<a href="#">GY-39800-42</a>	
			FDA Class IIIa	<5 mW			<a href="#">GY-39800-43</a>	
Metals	400 to 3275°F (200 to 1800°C)	Scope	—	—	1.6 µm nominal	90:1	<a href="#">GY-39800-46</a>	
		Single laser	FDA Class II	<1 mW			<a href="#">GY-39800-47</a>	
			FDA Class IIIa	<5 mW			<a href="#">GY-39800-48</a>	

[GY-39800-90](#) Software package with RS-232 cable. Store up to 5000 readings; maximum transfer at 1 reading per second

[GY-09376-01](#) Replacement batteries; AA. Pack of 4

## Digi-Sense® Benchtop Temperature Control Consoles

### Direct plug-in of heating or cooling devices

#### TC9000 Model (Thermocouple)

- Simple on/off to sophisticated PID control
- Simultaneous view of both the measured and set point on the two-line alphanumeric display
- Offset function allows you to correct for probe error
- Front panel indicates output and alarm conditions
- Mount to lab frame or grid with built-in support bracket

#### TC9500 Data Logging Model (Thermocouple, RTD, Thermistor)

Offers all the features of the Temp 9000 controller, plus nine-segment ramp and soak profiling for more complex processes, USB computer interface, and free software that features real-time visual of set points and process activity, along with data logging.

- Ramp rate and ramp-and-soak profiling for more complicated processes
- USB computer interface and free software that features real-time graphing and programming setup
- Data log more than 100 K data points in adjustable increments from 1 second to 999 seconds



Probe not included



#### Specifications

Input type	Range
J	-190 to 1000°C (-310 to 1832°F)
K	-200 to 1372°C (-328 to 2502°F)
T	-200 to 400°C (-328 to 752°F)
E	-200 to 1000°C (-328 to 1832°F)
N	-200 to 1300°C (-328 to 2372°F)
B	200 to 1800°C (392 to 3272°F)
R	0 to 1768°C (32 to 3214°F)
S	0 to 1768°C (32 to 3214°F)
Thermistor†	400 series: -30 to 100°C (-22 to 212°F) 700 series: -15 to 100°C (5 to 212°F)
100 Ω Pt RTD†	-200 to 800°C (-328 to 1472°F)

†Temp 9500 model only.

**Resolution:** 0.1°; 1° above 999.9° and below -99.9°

**Accuracy:** [span equals 540°C (1000°F) min]

Types J, K, T, E, and N: ±0.1% of span

Types B, R, and S: ±0.2% of span

Thermistor: ±0.4% of span 0.5°C (0.7°F)

RTD: ±0.1% of span

**Alarm output (9500 only):** SPT relay rated for 24 VAC, 1 A max

**Communication (9500 only):** USB



Model	Temperature probe inputs	Heater/cooler output (50/60 Hz)††	Heater/cooler output load	Power††	Catalog number	Price
TC9000	Thermocouple	120 VAC	15 A max, 1800 W	120 VAC	<a href="#">GY-89800-01</a>	
		240 VAC	105 A max, 2300 W	230 VAC	<a href="#">GY-89800-02</a>	
TC9500	Thermocouple, thermistor, RTD	120 VAC	15 A max, 1800 W	120 VAC	<a href="#">GY-89800-03</a>	
		240 VAC	10 A max, 2300 W	230 VAC	<a href="#">GY-89800-04</a>	

††For 230 VAC models the power and heater/cooler output uses IEC plugs. You may need to order an adapter sold separately, for your local requirements.

## Digi-Sense® Benchtop Ramp/Soak Controllers

### Programmable up to 40 steps

- Customize your interface and data collection with included software
- Program temperature, time, hold, soak, and end steps
- Don't overshoot process temperature with auto-tune function

Controller features an audible alarm function, selectable temperature scale, and one panel-mounted receptacle that accepts a three-prong plug. Select from models for types J, K, or T thermocouples with miniconnectors, or 100 Ω Pt RTD probes. To save bench space, mount the unit to a support pole or lattice using the included bracket.

**What's included:** software, 6-ft (1.8-m) detachable power cord, and lattice support bracket.



#### Specifications

**Resolution:** 1°, 1.0°, or 1.00° selectable

**Accuracy:** 0.1% of span, ±1.0°F/°C

**Load ratings:** 1500 watts resistive, 12.5 amps

**Control output:** Solid-state relay

**Alarm output:** Yes

**Ramp/soak:** 40 total steps

**Recorder output:** RS-232

Input type	Range	Power (60 Hz)	Catalog number	Price
J	-328 to 2192°F (-200 to 1200°C)	120 VAC	<a href="#">GY-36225-66</a>	
K	-328 to 2498°F (-200 to 1370°C)		<a href="#">GY-36225-67</a>	
T	-328 to 752°F (-200 to 400°C)		<a href="#">GY-36225-68</a>	
RTD	-328 to 1472°F (-200 to 800°C)		<a href="#">GY-36225-69</a>	

[GY-17101-63](#) NIST-traceable recalibration with data

Temperature

**Digi-Sense® Benchtop Twin-Temperature Controllers**

**Get two controllers in one**

- Easy programming with interface key
- Get better temperature control of two separate processes
- Don't overshoot process temperature with auto-tune feature

Controller features an audible alarm function, selectable temperature scale, and two panel-mounted receptacles that accept a three-prong plug. Select from models for types J, K, or T thermocouples with miniconnectors, or 100 Ω Pt RTD probes. To save bench space, mount the unit to a support pole or lattice using the included bracket.

**What's included:** 6-ft (1.8-m) detachable power cord and lattice support bracket.

**Specifications**

**Resolution:** 1°, 1.0°, or 1.00° selectable  
**Accuracy:** 0.1% of span, ±1.0°F/°C  
**Load ratings:** 1800 watts total resistive, 900 watts per channel

**Control output:** Solid-state relay  
**Alarm output:** Yes  
**Ramp/rate:** Yes  
**Recorder output:** None



Input type	Range	Power (60 Hz)	Catalog number	Price
J	-328 to 2192°F (-200 to 1200°C)	120 VAC	<a href="#">GY-36225-71</a>	
K	-328 to 2498°F (-200 to 1370°C)		<a href="#">GY-36225-72</a>	
T	-328 to 752°F (-200 to 400°C)		<a href="#">GY-36225-73</a>	
RTD	-328 to 1472°F (-200 to 800°C)		<a href="#">GY-36225-74</a>	

[GY-17101-63](#) NIST-traceable recalibration with data

**Digi-Sense® Benchtop PID Temperature Controllers**

**No more set point overshoot**

- Auto-tune minimizes temperature overruns
- Displays both set and process temperatures
- Easy programming with ramp features
- Versatile design with audible alarm and selectable temperature scale



**What's included:** 6-ft (1.8-m) detachable power cord and lattice support bracket.

**Specifications**

**Resolution:** 1°, 1.0°, or 1.00° selectable  
**Accuracy:** 0.1% of span, ±1.0°F/°C  
**Load ratings:** 1800 watts total resistive, 900 watts per channel

**Control output:** Solid-state relay  
**Alarm output:** None  
**Ramp/rate:** Yes  
**Recorder output:** None



Input type	Range	Power (60 Hz)	Catalog number	Price
J	-328 to 2192°F (-200 to 1200°C)	120 VAC	<a href="#">GY-36225-61</a>	
K	-328 to 2498°F (-200 to 1370°C)		<a href="#">GY-36225-62</a>	
T	-328 to 752°F (-200 to 400°C)		<a href="#">GY-36225-63</a>	
RTD	-328 to 1472°F (-200 to 800°C)		<a href="#">GY-36225-64</a>	

[GY-17101-63](#) NIST-traceable recalibration with data

**Digi-Sense® Benchtop On/Off Temperature Controller**

**Easy programming**

- Basic on/off control for less critical uses
- Shuts off receptacle power once temperature is reached

**What's included:** 6-ft (1.8-m) detachable power cord and lattice support bracket.



**Specifications**

**Control output:** Solid-state relay  
**Alarm output:** None

**Ramp/rate:** None  
**Recorder output:** None

Input type	Range	Load ratings	Power (60 Hz)	Catalog number	Price
J	-328 to 2192°F (-200 to 1200°C)	1800 watts total resistive, 900 watts per channel	120 VAC	<a href="#">GY-36225-90</a>	

[GY-17101-63](#) NIST-traceable recalibration with data

### Digi-Sense® Benchtop Variable-Voltage Output Controller

Get better control of non-adjustable heaters

- Manually control tapes, cards, and more via dial
- Plug heater into back and set dial to desired voltage output

**What's included:** 6-ft (1.8-m), three-wire attached power cord and lattice support bracket.



#### Specifications

**Control output:** Proportional voltage control      **Ramp/soak:** None  
**Alarm output:** None      **Recorder output:** None

Input type	Range	Load ratings	Power (60 Hz)	Catalog number	Price
None	5 to 100% of rated voltage	1200 watts resistive, 10 amps	120 VAC	<a href="#">GY-36225-59</a>	

[GY-17101-63](#) NIST-traceable recalibration with data

### Digi-Sense® Variable-Time Power Controller

Easily control output wattage to a resistive load

- Turns the output load on and off and then repeats the cycle
- Each position on the knob from low to high represents a specific cycle time where the "on" time ranges from 6 to 100 percent
- Use to regulate the temperature of resistive loads

**What's included:** Model 36225-91 has a 6-ft (1.8-m) cord with US plug; model 36225-92 has a 4-ft (1.2-m) cord without plug.



#### Specifications

**Control output:** Percent timer      **Ramp/soak:** None  
**Alarm output:** None      **Recorder output:** None

Input type	Range	Load ratings	Power (60 Hz)	Catalog number	Price
None	6 to 100% of time	1440 watts resistive	120 VAC	<a href="#">GY-36225-91</a>	
		2400 watts resistive	240 VAC	<a href="#">GY-36225-92</a>	

### Digi-Sense® Temperature Controller with Timer

Program up to three start/stop times

- Control time and temperature for heating equipment
- Display time and temperature
- Battery back-up saves programs

**What's included:** relay, 3½-ft relay cable, 3½-ft (1.0-m) sensor cable with integral sensor, calibration document supplied by manufacturer, and two AAA batteries.



Relay accepts a US standard three-prong plug



#### Specifications

**Range:** Time: 1 sec to 23 hr, 59 min, 59 sec  
 Temperature: -4 to 140°F (-20 to 60°C)  
**Resolution:** Temp: 0.1°F/°C; Time: 1 sec  
**Accuracy:** ±1.8°F (±1°C)  
**Control output:** relay rated for 115 VAC, 1800 W, 15 A  
**Sensor:** integral (in cable)

Power (50/60 Hz)	Catalog number	Price
115 VAC or two AAA batteries (included)	<a href="#">GY-94460-45</a>	

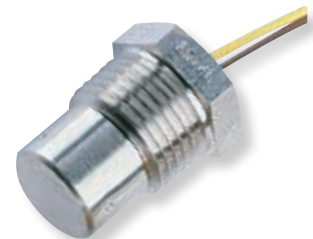
[GY-09376-00](#) Replacement batteries, AAA. Pack of 12

[GY-17101-63](#) NIST-traceable recalibration with data

### Temperature Switches

Control temperatures or safety shutoff

- Operate up to 1000 psi
- Easy to install—no shock mounts and very little wiring
- Stainless steel housing threads into any ½" NPT opening



#### Specifications

**Repeatability:** ±3°F (±2°C) at standardized conditions  
**Control rating:** SPDT switch rated for 28 VDC or 120 VAC, 5 A max, resistive, 3 A max, inductive; 220 VAC, 5 A max, resistive. 50,000 cycles  
**Dead band:** 15°F, ±5°F (8°C, ±3°C), nonadjustable  
**Electrical connections:** 3 wires, 12" (30.5 cm) L, 20 AWG stranded, PTFE insulation

Temperature trip point	Catalog number	Price
100°F (38°C)	<a href="#">GY-93880-52</a>	
125°F (52°C)	<a href="#">GY-93880-54</a>	
150°F (66°C)	<a href="#">GY-93880-56</a>	
200°F (93°C)	<a href="#">GY-93880-58</a>	
250°F (121°C)	<a href="#">GY-93880-62</a>	

# Choosing a Temperature Probe

## Temperature Range

**Thermocouples** are suitable for use from -200 to 2000°C, linearity varies according to type and temperature range generally but falls between thermistor and RTD characteristics.

**Platinum RTDs** are suitable for use from -50 to 550°C when longterm stability and repeatability is required. They offer virtually linear response and are interchangeable to DIN specifications.

**Thermistors** are suitable from -40 to 200°C when accuracy and high sensitivity are required. Response is nonlinear but can be linearized over short ranges (50°C or less) or computed by microprocessor.

## Accuracy

**Thermocouples** offer the widest range and are more cost effective, but the least sensitive and accurate of these sensor types.

**Thermistors** have less stability and repeatability, but are more sensitive than RTDs; They typically more expensive compared to RTDs.

**RTDs** offer the best stability and repeatability, but are less sensitive than thermistors.

## Speed of Response

Sensor response time depends strongly on the mounting enclosure. A bare, unenclosed sensor will always respond faster than one in a tube or probe assembly, but is also more susceptible to damage.

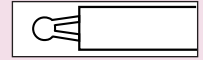
## System Error

This is important when you select a probe and meter to make a complete measurement system. For example: if a meter has an accuracy of ±0.7°F and a probe has an error limit of ±1.8°F at 400°F, the combined system accuracy will be (±0.7) + (±1.8) = ±2.5°F at 400°F.

## Probe Types

### Thermocouple Junctions:

**Exposed Junction** has the fastest response time—ideal for measuring rapid temperature changes. Do not use with corrosive fluids or atmospheres.



**Ungrounded Junction** has a welded junction insulated from the protective sheath and is electrically isolated. Longer response time.



**Grounded Junction** has a junction welded to tip of sheath. Wires are completely sealed from contaminants. Good response time.



### Thermistor 400-Series and 500-Series Probes

The 400-series probes have a resistance of 2252 Ω at 25°C and maintain a tolerance of ±0.1°C in the range of 32 to 167°F (0 to 75°C). The 500-series probes are recommended where small size is a requirement.

### RTD Two-, Three-, and Four-Wire Configurations

The two-wire configuration is good for any application where the sensor is connected directly to the receiver to prevent lead length resistance errors. Select the three-wire configuration when there is a significant distance between the sensor and the receiver. The four-wire configuration offers the most accurate measurement. One pair of leads provides the excitation current to the RTD while the other pair of leads measures the voltage across it.

## Digi-Sense® Industrial High-Temperature Flexible Thermocouple Probes



### Get into tight spaces

Bend probes to easily determine your pipe temperature. Probes are insulated with tightly packed powdered MgO in 12" or 25" long sheaths. Type J and type K probes feature Inconel® sheaths. Type T probes feature 316 SS sheaths. Feature color-coded ANSI miniconnectors: type J-black, type K-yellow, type T-blue, and type E-purple; or stripped ends.

Type	Temperature range		Accuracy	
	For 0.020" and 0.040" dia probes††	For 0.063" dia probes††	For probes with miniconnector	For probes with stripped ends
J	-300 to 500°F (-185 to 260°C)	-310 to 825°F (-190 to 440°C)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)
K	-418 to 1290°F (-250 to 700°C)	-418 to 1690°F (-250 to 920°C)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)
T	-418 to 500°F (-250 to 260°C)	-418 to 500°F (-250 to 260°C)	±2.7°F (±1.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)

Junction	Dimensions†	Type J		Type K		Type T		Photo
		Cat. no.	Price	Cat. no.	Price	Cat. no.	Price	
<b>12"L probes with miniature stainless steel handles.</b> Use in applications where space is limited or the probe needs to be bent.								
Exp	Sheath: 12"L x 0.020" dia†	<a href="#">GY-93630-00</a>		<a href="#">GY-93631-00</a>		<a href="#">GY-93632-00</a>		
Grd	Cable: 3-ft, 24 gauge (0.020 dia)	<a href="#">GY-93630-01</a>		<a href="#">GY-93631-01</a>		<a href="#">GY-93632-01</a>		
Ung	Miniconnector	<a href="#">GY-93630-02</a>		<a href="#">GY-93631-02</a>		<a href="#">GY-93632-02</a>		
Exp	Sheath: 12"L x 0.040" dia†	<a href="#">GY-93630-10</a>		<a href="#">GY-93631-10</a>		<a href="#">GY-93632-10</a>		
Grd	Cable: 3-ft, 14 gauge (0.020 dia)	<a href="#">GY-93630-11</a>		<a href="#">GY-93631-11</a>		<a href="#">GY-93632-11</a>		
Ung	Miniconnector	<a href="#">GY-93630-12</a>		<a href="#">GY-93631-12</a>		<a href="#">GY-93632-12</a>		
<b>25"L probes with miniature stainless steel handles.</b> Use in applications where space is limited or the probe needs to be bent.								
Exp	Sheath: 25"L x 0.063" dia†	<a href="#">GY-93630-20</a>		<a href="#">GY-93631-20</a>		<a href="#">GY-93632-20</a>		
Grd	Cable: 3-ft, 24 gauge (0.020 dia)	<a href="#">GY-93630-21</a>		<a href="#">GY-93631-21</a>		<a href="#">GY-93632-21</a>		
Ung	Miniconnector	<a href="#">GY-93630-22</a>		<a href="#">GY-93631-22</a>		<a href="#">GY-93632-22</a>		
<b>12"L probes with miniature stainless steel handles.</b> Use in applications where space is limited or the probe needs to be bent.								
Grd	Sheath: 12"L x 0.040" dia†	<a href="#">GY-93630-41</a>		<a href="#">GY-93631-41</a>		<a href="#">GY-93632-41</a>		
Ung	Cable: 3-ft, 14 gauge (0.020 dia) Stripped leads	<a href="#">GY-93630-42</a>		<a href="#">GY-93631-42</a>		<a href="#">GY-93632-42</a>		
<b>25"L probes with miniature stainless steel handles.</b> Use in applications where space is limited or the probe needs to be bent.								
Grd	Sheath: 25"L x 0.063" dia†	<a href="#">GY-93630-51</a>		<a href="#">GY-93631-51</a>		<a href="#">GY-93632-51</a>		
Ung	Cable: 3-ft 24 gauge (0.020 dia) Stripped leads	<a href="#">GY-93630-52</a>		<a href="#">GY-93631-52</a>		<a href="#">GY-93632-52</a>		

††Temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. Stainless steel handles are rated to 450°F (232°C). †Overall probe sheath lengths may vary up to ±0.25".

## Digi-Sense® Flexible Insulated-Wire Thermocouple Probes

All insulated-wire probes include straight insulated cable with no handle. Fiberglass and ceramic insulated probes have exposed junctions; use for high-temperature applications. Exposed junction probes are not recommended for use with aqueous solutions (type J exposed-junction probes will rust when exposed to moisture).



Type	Dimensions†	Temperature range °F (°C)††	Accuracy	Catalog number	Price	Photo
<b>PVC-insulated probe with PVC-coated tip (ungrounded); short-term immersible.</b>						
T	Tip: 0.168" dia OD: 0.088" x 0.140"; Length: 5-ft Wire: 24 gauge (0.020 dia) Miniconnector	-418 to 221 (-250 to 105)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08505-90</a>		
<b>PVC-insulated probe with PVC-coated tip (ungrounded); short-term immersible.</b>						
J	Tip: 0.166" dia	-310 to 221 (-190 to 105)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08466-02</a>		
K	OD: 0.090" x 0.155"; Length: 10-ft Wire: 20 gauge (0.032 dia) Miniconnector	-418 to 221 (-250 to 105)	±2.0°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08466-04</a>		
T	Miniconnector	-418 to 221 (-250 to 105)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08466-06</a>		
<b>PVC-insulated probes with exposed tip (exposed). Use for general purpose readings; not recommended for use in aqueous environments.</b>						
J	OD: 0.020" dia	-310 to 221 (-190 to 105)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08515-00</a>		
K	Length: 3-ft	-418 to 221 (-250 to 105)	±2.0°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08515-01</a>		
T	Wire: 24 gauge (0.020 dia) Miniconnector	-418 to 221 (-250 to 105)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08515-02</a>		
<b>FEP-insulated probes with FEP-coated junction (ungrounded); long-term immersible probes. FEP insulation allows use in semi-caustic environments.</b>						
J	Tip: 0.120" dia	-310 to 400 (-190 to 204)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08466-81</a>		
K	OD: 0.056 x 0.093"; Length: 10-ft Wire: 24 gauge (0.032 dia) Miniconnector	-418 to 400 (-250 to 204)	±2.0°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08466-82</a>		
T	Miniconnector	-418 to 400 (-250 to 204)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08466-83</a>		
J	Tip: 0.120" dia	-310 to 400 (-190 to 204)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08113-21</a>		
K	OD: 0.056 x 0.093"; Length: 10-ft Wire: 20 gauge (0.032 dia)	-418 to 400 (-250 to 204)	±2.0°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08113-22</a>		
T	Stripped leads	-418 to 400 (-250 to 204)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08113-23</a>		
<b>Chemical resistant FEP-insulated probes (exposed). Use for general purpose readings; not recommended for use in aqueous environments.</b>						
J	OD: 0.056 x 0.093"	-310 to 400 (-190 to 204)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08516-81</a>		
K	Length: 10-ft	-418 to 400 (-250 to 204)	±2.0°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08516-82</a>		
T	Wire: 24 gauge (0.020 dia) Miniconnector	-418 to 400 (-250 to 204)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08516-83</a>		
<b>Kapton®-insulated probe (exposed). Use for general purpose readings. Ideal for environments that require slightly higher temperature than FEP/PFA can provide.</b>						
J	OD: 0.056 x 0.093" Length: 10-ft Wire: 24 gauge (0.020 dia) Miniconnector	-310 to 600 (-190 to 315)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08517-90</a>		
<b>Kapton®-insulated probe (exposed). Ideal for checking food temperatures; faster response time than most insulated wire probes. Sold in packs of 6.</b>						
J	OD: 0.052" dia	-310 to 600 (-190 to 315)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08505-87</a>		
K	Length: 5-ft	-418 to 600 (-250 to 315)	±2.0°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08505-86</a>		
T	Wire: 30 gauge (0.010 dia) Miniconnector	-418 to 600 (-250 to 315)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08505-85</a>		
<b>Fiberglass-insulated probe (exposed). Use for high-temperature measurements; not recommended for moist or wet environments.</b>						
J	OD: 0.052 x 0.081"	-310 to 900 (-190 to 482)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08512-81</a>		
K	Length: 10-ft	-418 to 900 (-250 to 482)	±2.0°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08512-82</a>		
T	Wire: 24 gauge (0.020 dia) Miniconnector	-418 to 750 (-250 to 400)	±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08512-83</a>		
<b>High-temperature fiberglass-insulated probes (exposed). Use for high-temperature measurements; not recommended for moist or wet environments</b>						
J	OD: 0.08 x 0.13"; Length: 10-ft Wire: 20 gauge (0.032 dia) Miniconnector	-418 to 1300 (-250 to 704)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08467-22</a>		
K	Miniconnector	-418 to 1300 (-250 to 704)		<a href="#">GY-08467-24</a>		
J	OD: 0.08 x 0.13"; Length: 10-ft Wire: 20 gauge (0.032 dia)	-418 to 1300 (-250 to 704)		<a href="#">GY-08113-30</a>		
K	Stripped leads	-418 to 1300 (-250 to 704)	<a href="#">GY-08113-31</a>			
<b>High-temperature ceramic fiber-insulated probes (exposed). For high-temperature measurements (ceramic fiber cannot be handled after 800°F [426°C] due to flaking of insulation).</b>						
K	Tip: 0.40" dia OD: 0.10 x 0.16" Length: 5-ft Wire: 20 gauge (0.032 dia) Miniconnector	-418 to 2000 (-250 to 1093)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08467-64</a>		
<b>PTFE-insulated fast response probes (ungrounded). Implant in semisolids for fast response. Five 40-gauge needles included.</b>						
J	Tip: 40 gauge needle	-310 to 400 (-190 to 204)	±2.0°F (±1.1°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08113-27</a>		
K	Length: 3-ft	-418 to 400 (-250 to 204)		<a href="#">GY-08113-28</a>		
T	Wire: 40 gauge (0.003 dia) Stripped leads	-418 to 400 (-250 to 204)		±0.9°F (±0.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08113-29</a>	

††Temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless steel handles are rated to 450°F (232°C).

\*Overall probe sheath lengths may vary up to ±0.25".

### Digi-Sense® General-Purpose Thermocouple Probes with Miniconnector End

Probes with handles feature a strain relief spring that protects the cable connection against damage due to repeated flexing and tugging. ABS handles provide a lightweight design for ease of use along with durability. Feature color-coded ANSI miniconnectors: type J-black, type K-yellow, type T-blue, and type E-purple.



Type	Sheath material	Dimensions†	Temperature range °F (°C)††	Accuracy	Catalog number	Price	Photo
<b>Compact probes with PVC handle (grounded).</b> Use with liquids, gases, and semisolids.							
J	316 SS	Sheath: 4.5"L x 0.125" dia Handle: 1.5"L, Cable: 5-ft coiled cord. Miniconnector	-310 to 700 (-190 to 311)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08439-60</a>		
K			-418 to 700 (-250 to 311)		<a href="#">GY-08439-62</a>		
T			-418 to 700 (-250 to 311)	±3.6°F (±2.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08439-64</a>		
<b>Compact PFA-coated probes with PVC handle (grounded).</b> Use with corrosive chemicals and strong acids.							
J	316 SS with PFA coating	Sheath: 4.5"L x 0.145" dia, Handle: 1.5"L, Cable: 5-ft coiled cord. Miniconnector	-310 to 400 (-190 to 204)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08441-10</a>		
K			-418 to 400 (-250 to 204)		<a href="#">GY-08441-12</a>		
T			-418 to 400 (-250 to 204)	±3.6°F (±2.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08441-14</a>		
<b>Standard probes with ABS handle (grounded).</b> Use with liquids, gases, and semisolids.							
J	316 SS	Sheath: 5"L x 0.156" dia, Tip: 0.093" dia, Handle: 5.5"L, Cable: 5-ft coiled cord. Miniconnector	-310 to 1400 (-190 to 760)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08517-55</a>		
K			-418 to 1650 (-250 to 899)		<a href="#">GY-08516-55</a>		
T			-418 to 752 (-250 to 400)	±3.6°F (±2.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08500-55</a>		
E			-418 to 1600 (-250 to 871)	±6.7°F (±3.7°C), or ±0.4% of rdg above 32°F (0°C); ±0.5% of rdg below 32°F (0°C)	<a href="#">GY-08512-55</a>		
<b>Extra-long stainless steel probes with ABS handle (grounded).</b> Use with liquids, gases and semisolids.							
J	316 SS	Sheath: 10"L x 0.188" dia, Tip: 0.5" dia, Handle: 5.5"L, Cable: 5-ft coiled cord. Miniconnector	-310 to 1400 (-190 to 760)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-93756-00</a>		
K			-418 to 1650 (-250 to 899)		<a href="#">GY-93756-20</a>		
T			-418 to 752 (-250 to 400)	±3.6°F (±2.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-93756-40</a>		
<b>Extra-long PFA-coated probes with ABS handle (grounded).</b> Use with corrosive chemicals and strong acids.							
J	316 SS with PFA coating	Sheath: 10"L x 0.145" dia, Handle: 5.5"L, Cable: 5-ft coiled cord. Miniconnector	-310 to 400 (-190 to 204)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-93812-00</a>		
K			-418 to 400 (-250 to 204)		<a href="#">GY-93812-02</a>		
T			-418 to 400 (-250 to 204)	±3.6°F (±2.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-93812-04</a>		
<b>Small-diameter probes with ABS handle (grounded).</b> Use with liquids, gases, and semisolids.							
J	316 SS	Sheath: 4"L x 0.063" dia, Handle: 5.5"L, Cable: 5-ft coiled cord. Miniconnector	-310 to 1300 (-190 to 704)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08505-55</a>		
K			-418 to 1500 (-250 to 816)		<a href="#">GY-08505-56</a>		
T			-418 to 650 (-250 to 343)	±3.6°F (±2.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08505-57</a>		
<b>Stainless steel probes with stainless steel handle (grounded).</b> Designed for heavy duty, industrial, or food applications. Use with liquids, gases, and semisolids.							
J	316 SS	Sheath: 8"L x 0.125" dia, Handle: 4.5"L, Cable: 4-ft SS- armored cable. Miniconnector	-310 to 1400 (-190 to 760)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-93600-02</a>		
K			-418 to 1650 (-250 to 899)		<a href="#">GY-93600-22</a>		
T			-418 to 752 (-250 to 400)	±2.7°F (±1.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-93600-42</a>		
<b>Small-diameter probes with miniature stainless steel handle (grounded).</b> Use with liquids, gases, and semisolids. Ideal for checking food temperatures.							
J	316 SS	Sheath: 8"L x 0.063" dia, Handle: 1.5"L, Cable: 5-ft coiled cord. Miniconnector	-310 to 1300 (-190 to 704)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08505-61</a>		
K			-418 to 1500 (-250 to 816)		<a href="#">GY-08505-62</a>		
T			-418 to 650 (-250 to 343)	±3.6°F (±2.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08505-63</a>		
<b>Straight-shaft microprobes with miniature stainless steel handle (grounded).</b> Use with liquids, gases, and semisolids. Ideal for checking food temperatures							
J	316 SS	Sheath: 4"L x 0.063" dia, Tip: 0.020" dia, Handle: 1.5"L, Cable: 4-ft FEP-insulated. Miniconnector	-310 to 750 (-190 to 399)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08116-60</a>		
K			-418 to 800 (-250 to 427)		<a href="#">GY-08117-60</a>		
T			-418 to 450 (-250 to 232)	±2.7°F (±1.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08113-60</a>		

†Temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless steel handles are rated to 450°F (232°C).

†Overall probe sheath lengths may vary up to ±0.25".

**Digi-Sense® Penetration Thermocouple Probes with Miniconnector End**

**Easy measurement of soft materials**



Probes with handles feature a strain relief spring that protects the cable connection against damage due to repeated flexing and tugging. ABS handles provide a lightweight design for ease of use along with durability.

Temperature Probes

Type	Dimensions†	Temperature range °F (°C)††	Accuracy	Catalog number	Price	Photo
<b>Compact penetration probe, 316 SS with PVC handle (grounded).</b> Ideal for soft and semisoft materials.						
J	Sheath: 2.5"L x 0.125" dia Handle: 1.5"L Cable: 5-ft coiled cord Miniconnector	-310 to 700 (-190 to 311)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08439-80</a>		
K		-418 to 700 (-250 to 311)		<a href="#">GY-08439-82</a>		
T		-418 to 700 (-250 to 311)		<a href="#">GY-08439-84</a>		
<b>Standard penetration probe, 304 SS with ABS handle (grounded).</b> Ideal for soft and semisoft materials.						
J	Sheath: 4"L x 0.156" dia Handle: 5.5"L Cable: 5-ft coiled cord Miniconnector	-310 to 1200 (-190 to 648)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08517-65</a>		
K		-418 to 1450 (-250 to 787)		<a href="#">GY-08516-65</a>		
T		-418 to 752 (-250 to 400)		<a href="#">GY-08500-65</a>		
<b>Extra-long, heavy-duty penetration probe, 316 SS with ABS handle (grounded).</b> Extra length and durability for large samples; ideal for use in soft ground and semi frozen materials.						
J	Sheath: 12"L x 0.250" dia Handle: 5.5"L Cable: 5-ft coiled cord Miniconnector	-310 to 1400 (-190 to 760)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-93601-22</a>		
K		-418 to 1652 (-250 to 900)		<a href="#">GY-93601-24</a>		
T		-418 to 700 (-250 to 371)		<a href="#">GY-93601-26</a>		
J	Sheath: 24"L x 0.250" dia Handle: 5.5"L Cable: 5-ft coiled cord Miniconnector	-310 to 1400 (-190 to 760)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-93601-42</a>		
K		-418 to 1652 (-250 to 900)		<a href="#">GY-93601-44</a>		
T		-418 to 550 (-250 to 287)		<a href="#">GY-93601-46</a>		
<b>Small-diameter, hypodermic-tip probe, 316 SS with ABS handle (grounded).</b> Ideal for soft and semisoft materials.						
J	Sheath: 4"L x 0.063" dia Handle: 5.5"L Cable: 5-ft coiled cord Miniconnector	-310 to 1100 (-190 to 593)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-93601-02</a>		
K		-418 to 1300 (-250 to 704)		<a href="#">GY-93601-04</a>		
T		-418 to 650 (-250 to 343)		<a href="#">GY-93601-06</a>		
<b>Small-diameter, hypodermic-tip probe, 316 SS with miniature stainless steel handle (grounded).</b> Ideal for soft and semisoft materials and food applications.						
J	Sheath: 4"L x 0.063" dia Handle: 1.5"L Cable: 4-ft FEP-insulated Miniconnector	-310 to 700 (-190 to 371)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08116-65</a>		
K		-418 to 700 (-250 to 371)		<a href="#">GY-08117-65</a>		
T		-418 to 700 (-250 to 371)		<a href="#">GY-08113-65</a>		
J	Sheath: 4"L x 0.063" dia Handle: 1.5"L Cable: 4-ft armored Miniconnector	-310 to 675 (-190 to 357)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-93607-20</a>		
K		-418 to 675 (-250 to 357)		<a href="#">GY-93607-22</a>		
T		-418 to 675 (-250 to 357)		<a href="#">GY-93607-24</a>		
<b>Small-diameter, hypodermic-tip probe, 316 SS with miniature PTFE-coated handle (grounded).</b> Tip penetrates soft or semisoft materials without disturbing sample. Ideal for food applications.						
J	Sheath: 2.25"L x 0.035" dia Handle: 1.5"L Cable: 2.5-ft FEP insulated Miniconnector	-310 to 600 (-190 to 315)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08505-89</a>		
K		-418 to 600 (-250 to 315)		<a href="#">GY-08505-92</a>		
T		-418 to 600 (-250 to 315)		<a href="#">GY-08505-93</a>		
<b>Small-diameter, needle-tip microprobe, 316 SS with miniature stainless steel handle (grounded).</b> Use for liquids, soft materials, and semisolids.						
J	Sheath: 0.75"L x 0.020" dia Handle: 1.5"L Cable: 5-ft FEP insulated Miniconnector	-310 to 392 (-190 to 200)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08505-97</a>		
K		-418 to 392 (-250 to 200)		<a href="#">GY-08505-96</a>		
T		-418 to 392 (-250 to 200)		<a href="#">GY-08505-95</a>		
<b>Heavy-duty penetration probe, 316 SS (grounded).</b> Rugged handle is ideal for use on soft or semisoft materials such as semi frozen meats, liquids, or plastics.						
J	Sheath: 6"L x 0.388" dia Handle: 4.75"L Cable: 5-ft coiled cord Miniconnector	-310 to 1400 (-190 to 760)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08517-67</a>		
K		-418 to 1652 (-250 to 900)		<a href="#">GY-08516-67</a>		
T		-418 to 550 (-250 to 287)		<a href="#">GY-08500-67</a>		

††Temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless steel handles are rated to 450°F (232°C).

†Overall probe sheath lengths may vary up to ±0.25".

**Not Quite Right? We can customize it!**

## Temperature

### Digi-Sense® Surface Thermocouple Probes with Miniconnector End

### Stop struggling to read flat-surface temperatures

Surface probes are designed for monitoring a wide range of flat surfaces. Probes with handles feature a strain relief spring that protects the cable connection against damage due to repeated flexing and tugging. ABS handles provide a lightweight design for ease of use along with durability.



Type	Dimensions†	Temperature range °F (°C)††	Accuracy	Catalog number	Price	Photo
<b>Compact surface probes with aluminum housing/handle and ceramic support (exposed).</b> Use to monitor surfaces such as hot plates, furnaces, and molds.						
J	Tip: 0.25" dia, OD: 0.63" dia;	-310 to 1200 (-190 to 649)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08519-66</a>		
K	Handle: 4.5"L	-418 to 1200 (-250 to 649)				
T	Cable: 5-ft fiberglass with SS overbraid; Miniconnector	-418 to 700 (-250 to 371)	±3.6°F (±2.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08525-66</a>		
<b>Standard surface probes with aluminum housing, 316 SS shaft and ABS handle (exposed).</b> Use to monitor hot plates, furnaces, and molds. Made with ceramic support inside a 2" aluminum housing.						
J	Tip: 2"L x 0.63" dia	-310 to 1200 (-190 to 649)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08517-60</a>		
K	Sheath: 8"L x 0.188" dia	-418 to 1200 (-250 to 649)				
T	Handle: 5.5"L	-418 to 650 (-250 to 343)	±3.6°F (±2.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08500-60</a>		
<b>Compact 90°-angle surface probes with 316 SS housing, 316 SS shaft and ABS handle (exposed).</b> Use to monitor hot plates, furnaces, and molds. Ideal for limited space applications.						
J	Tip: 1.1"L x 0.63" dia	-310 to 1200 (-190 to 649)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08517-63</a>		
K	Sheath: 8"L x 0.188" dia	-418 to 1200 (-250 to 649)				
T	Handle: 5.5"L	-418 to 650 (-250 to 343)	±3.6°F (±2.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08500-63</a>		
<b>90°-angle surface probes with aluminum housing, 316 SS shaft and ABS handle (exposed).</b> Use to monitor hot plates, furnaces, and molds. Ideal for hard-to-reach areas.						
J	Tip: 2"L x 0.63" dia	-310 to 1200 (-190 to 649)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08517-64</a>		
K	Sheath: 6"L x 0.188" dia	-418 to 1200 (-250 to 649)				
T	Handle: 5.5"L	-418 to 650 (-250 to 343)	±3.6°F (±2.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08500-64</a>		
<b>45°-angle surface probes with aluminum housing, 316 SS shaft and ABS handle (exposed).</b> For measuring hard-to-reach areas; made with ceramic support inside a 2" aluminum housing.						
J	Tip: 2"L x 0.63" dia	-310 to 1200 (-190 to 649)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08517-61</a>		
K	Sheath: 8"L x 0.188" dia	-418 to 1200 (-250 to 649)				
T	Handle: 5.5"L	-418 to 650 (-250 to 343)	±3.6°F (±2.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08500-61</a>		
<b>90°-angle 304 SS surface probes with guarded tip probes and Delrin® acetal handle (exposed).</b> Durable precision construction offers high accuracy and extra-fast response. Ideal for industrial applications.						
K	Tip: 1.125"L x 0.625" dia	-418 to 932 (-250 to 500)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08447-41</a>		
<b>Kapton® self-adhesive surface probes (grounded).</b> Designed for high temperature and long-term durability. Kapton® tape glue is rated up to 400°F (203°C). Pack of 3.						
J	Adhesive tape 1" x 2" Cable: 5-ft insulated wire Miniconnector	-310 to 675 (-190 to 357)	±4.0°F (±2.2°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08519-50</a>		
K		-418 to 675 (-250 to 357)				
T		-418 to 675 (-250 to 357)	±1.8°F (±1.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08519-54</a>		

†Temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless steel handles are rated to 450°F (232°C). ††Overall probe sheath lengths may vary up to ±0.25".

### Digi-Sense® Industrial Detachable Thermocouple Probes

### Easily switch components

Detachable probes attach directly to a meter. Each probe features color-coded ANSI miniconnectors: type J-black, type K-yellow, type T-blue, and type E-purple.



Type	Dimensions†	Temperature range in °F (°C)††	Accuracy	Catalog number	Price	Photo
<b>General-purpose 316 stainless steel probes (grounded).</b> For use with liquids, gases, and semisolids.						
J	Sheath: 8"L x 0.25" dia, Miniconnector	-310 to 1200 (-190 to 649)	±4.0°F (±2.2°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08116-40</a>		
K		-418 to 1200 (-250 to 649)				
T		-418 to 750 (-250 to 399)	±1.8°F (±1.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08113-40</a>		
<b>Penetration 316 stainless steel probes (grounded).</b> For use with liquids, gases, and semisolids; especially meat, food products, and semisoft materials.						
J	Sheath: 4"L x 0.25" dia, Miniconnector	-310 to 800 (-190 to 427)	±4.0°F (±2.2°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08116-45</a>		
K		-418 to 800 (-250 to 427)				
T		-418 to 750 (-250 to 399)	±1.8°F (±1.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08113-45</a>		

†Overall probe sheath lengths may vary up to ±0.25" ††Temperature range is for the probe tip only. The connector material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material.

## Digi-Sense® Specialty Surface Thermocouple Probes with Miniconnector End

These probes are ideal for special applications in an industrial environment. Probes with handles feature a strain relief spring that protects the cable connection against damage due to repeated flexing and tugging. ABS handles provide a lightweight design for ease of use along with durability.



Type	Dimensions†	Temperature range °F (°C)††	Accuracy	Catalog number	Price	Photo
<b>Flexible surface probes with 304 SS shim and ABS handle (exposed).</b> Measure moving rollers and similar convex surfaces with a flexible ribbon-mounted thermocouple stretched across a T-shaped bow.						
J	Bow: 4" L Sheath: 10.5" L Cable: 5-ft coiled cord Miniconnector	-310 to 600 (-190 to 316)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08517-95</a>		
K		-418 to 900 (-250 to 482)		<a href="#">GY-08516-95</a>		
T		-418 to 450 (-250 to 232)	±3.6°F (±2.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08500-95</a>		
E		-418 to 600 (-250 to 316)	±6.7°F (±3.7°C), or ±0.4% of rdg above 32°F (0°C); ±0.5% of rdg below 32°F (0°C)	<a href="#">GY-08512-95</a>		
<b>Rolling wheel surface probe with 304 SS shim, PTFE tip guard and PVC handle (exposed).</b> Measure temperature of rotary and other moving surfaces. Feature adjustable handle for use at any angle. Maximum surface speed is 300ft/min.						
K	Head: 2.75" L x 2.4" W Handle: 4.75" L Cable: 5-ft coiled cord Miniconnector	-418 to 450 (-250 to 232)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08445-31</a>		
<b>Surface probes with 301 SS shim, PTFE tip guard and SS handle (grounded).</b> Designed for quick, precise temperature measurements of moving or stationary surfaces. Maximum surface speed is 2500 ft/min. PTFE guard protects exposed junction.						
J	Head: 2.4" L x 1.4" W Handle: 5.5" L	-310 to 450 (-190 to 232)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08533-69</a>		
K	Cable: 3-ft SS braided Miniconnector	-418 to 450 (-250 to 232)		<a href="#">GY-08533-63</a>		
<b>Hose clamp probes, 304 SS (grounded).</b> Permanently install on hoses, piping, and small round vessels.						
J	Clamp: 0.50" W for 0.44-1.00" dia Cable: 10-ft SS braided Miniconnector	-310 to 900 (-190 to 482)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08469-20</a>		
K		-418 to 900 (-250 to 482)		<a href="#">GY-08469-22</a>		
T		-418 to 750 (-250 to 399)		±2.7°F (±1.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08469-24</a>	
J	Clamp: 0.50" W for 0.50-1.50" dia Cable: 10-ft SS braided Miniconnector	-310 to 900 (-190 to 482)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08469-30</a>		
K		-418 to 900 (-250 to 482)		<a href="#">GY-08469-32</a>		
T		-418 to 750 (-250 to 399)		±2.7°F (±1.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08469-34</a>	
J	Clamp: 0.50" W for 1.25-2.25" dia Cable: 10-ft SS braided Miniconnector	-310 to 900 (-190 to 482)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08469-40</a>		
K		-418 to 900 (-250 to 482)		<a href="#">GY-08469-42</a>		
T		-418 to 750 (-250 to 399)		±2.7°F (±1.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08469-44</a>	
<b>Nickel-plated steel alligator clip probes (exposed).</b> Clip onto objects inside ovens or dry hot environments. Exposed junction probe is mounted in clip.						
J	Clip: 2" L x 0.38" W opening Cable: 10-ft SS braided Miniconnector	-310 to 650 (-190 to 343)	±4.0°F (±2.2°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08468-20</a>		
K		-418 to 650 (-250 to 343)		<a href="#">GY-08468-22</a>		
T		-418 to 650 (-250 to 343)		±1.8°F (±1.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08468-24</a>	
<b>Dropping/magnetic probes with aluminum housing (exposed).</b> Attach magnetic probe to any flat ferrous surface.						
J	OD: 1.5" L x 1" dia Cable: 5-ft coil cord Miniconnector	-310 to 1200 (-190 to 649)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08517-86</a>		
K		-418 to 1200 (-250 to 649)		<a href="#">GY-08516-86</a>		
T		-418 to 650 (-250 to 343)		±3.6°F (±2.0°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08500-86</a>	
J	OD: 1.5" L x 1" dia Cable: 10-ft fiberglass wire, SS overbraid Miniconnector	-310 to 1200 (-190 to 649)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08519-86</a>		
K		-418 to 1200 (-250 to 649)		<a href="#">GY-08514-86</a>		
T		-418 to 650 (-250 to 343)		±2.7°F (±1.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08525-86</a>	
<b>Bolt-on washer probes, 304 SS with fiberglass cable (grounded).</b> Use for measuring machinery or mold temperatures. Not recommended for applications in damp or wet environments						
J	Washer: 0.62" OD x 0.28" ID Cable: 25-ft fiberglass Miniconnector	-310 to 900 (-190 to 482)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08519-84</a>		
K		-418 to 900 (-250 to 482)		<a href="#">GY-08514-84</a>		
T		-418 to 750 (-250 to 399)		±2.7°F (±1.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08525-84</a>	
<b>Heavy duty bolt-on washer probes, 304 SS (grounded).</b> Bolt washer to fixed surfaces for continuous monitoring. Not recommended for applications in damp or wet environments						
J	Washer: 0.62" OD x 0.28" ID Cable: 5-ft fiberglass wire with SS armor Miniconnector	-310 to 900 (-190 to 482)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08517-85</a>		
K		-418 to 900 (-250 to 482)		<a href="#">GY-08516-85</a>		
T		-418 to 750 (-250 to 399)		±2.7°F (±1.5°C), or ±0.4% of rdg above 32°F (0°C); ±0.8% of rdg below 32°F (0°C)	<a href="#">GY-08500-85</a>	

††Temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless steel handles are rated to 450°F (232°C).

†Overall probe sheath lengths may vary up to ±0.25".

## Temperature

### Digi-Sense® Specialty Thermocouple Probes with Miniconnector End

#### Easily identify probes



Probes with handles feature a strain relief spring that protects the cable connection against damage due to repeated flexing and tugging. ABS handles provide a light weight design for ease of use along with durability.

Type	Dimensions†	Temperature range °F (°C)††	Accuracy	Catalog number	Price	Photo
<b>Heavy-duty 316 SS probes with ABS handle (grounded).</b> Use with liquids, gases, and semisolids.						
J	Sheath: 12"L x 0.25" dia Tip: 0.125" dia Handle: 5.5"L Cable: 5-ft coiled cord Miniconnector	-310 to 1400 (-190 to 760)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-93756-03</a>		
K		-418 to 1650 (-250 to 899)		<a href="#">GY-93756-23</a>		
T		-418 to 752 (-250 to 400)		<a href="#">GY-93756-63</a>		
J	Sheath: 24"L x 0.25" dia Tip: 0.125" dia Handle: 5.5"L Cable: 5-ft coiled cord Miniconnector	-310 to 1400 (-190 to 760)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-93756-04</a>		
K		-418 to 1650 (-250 to 899)		<a href="#">GY-93756-24</a>		
T		-418 to 752 (-250 to 400)		<a href="#">GY-93756-44</a>		
J	Tip: 0.125" dia Sheath: 36"L x 0.25" dia Handle: 5.5"L Cable: 5-ft coiled cord Miniconnector	-310 to 1400 (-190 to 760)	±7.9°F (±4.4°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-93756-06</a>		
K		-418 to 1650 (-250 to 899)		<a href="#">GY-93756-26</a>		
T		-418 to 752 (-250 to 400)		<a href="#">GY-93756-46</a>		
<b>Heavy-duty, Inconel 600® probes with miniature SS handle (grounded).</b> Use for industrial furnaces with tongs or insulated gloves. Ideal for long-term, high-temperature applications.						
J	Sheath: 36"L x 0.125" dia Handle: 5.5"L Cable: 3-ft 304 SS armored Miniconnector	-310 to 1400 (-190 to 760)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08517-80</a>		
K		-418 to 1700 (-250 to 927)		<a href="#">GY-08516-80</a>		
T		-418 to 752 (-250 to 400)		<a href="#">GY-08500-80</a>		
<b>High-temperature type R and S Inconel 600® probes with miniature SS handle (ungrounded).</b> Use for high temperature applications. Type R or type S are more accurate and stable at high temperatures than other thermocouples.						
R	Sheath: 12"L x 0.125" dia Handle: 1.5"L Cable: 3-ft PVC-insulated Miniconnector	600 to 2100 (316 to 1149); Intermittent use to 2500 (1371)	±3°F (±1.7°C), or ±0.4% of rdg above 32°F (0°C)	<a href="#">GY-93838-12</a>		
S				<a href="#">GY-93839-12</a>		
<b>Pipe-fitting Inconel 600® probes with miniature stainless steel handle (grounded).</b> Use for pressurized chambers and pipelines. Adjust immersion depth using compression fitting. Withstand pressure to 2000 psi at 1000°F (538°C), stainless steel compression fitting.						
J	Sheath: 4"L x 0.188" dia (total length 5.25") Handle: 1.5"L Cable: 6-ft, 24 gauge insulated Miniconnector	-310 to 1600 (-190 to 871)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08517-71</a>		
K		-418 to 2012 (-250 to 1100)		<a href="#">GY-08516-71</a>		
T		-418 to 750 (-250 to 399)		<a href="#">GY-08500-71</a>		
J	Sheath: 12"L x 0.188" dia (total length 13.25") Handle: 1.5"L Cable: 6-ft, 24 gauge insulated Miniconnector	-310 to 1600 (-190 to 871)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08517-70</a>		
K		-418 to 2012 (-250 to 1100)		<a href="#">GY-08516-70</a>		
T		-418 to 750 (-250 to 399)		<a href="#">GY-08500-70</a>		
<b>Pipe-plug 304 SS probes with 1/4" NPT(M) (grounded).</b> Use wherever space is limited; sheath extends 0.5" past the end of the pipe plug for fast response. Withstand pressure to 2000 psi at ambient temperatures.						
J	Sheath: 0.5"L x 0.25" dia Cable: 5-ft, 24 gauge insulated Miniconnector	-310 to 900 (-190 to 482)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08517-74</a>		
K		-418 to 900 (-250 to 482)		<a href="#">GY-08516-74</a>		
T		-418 to 700 (-250 to 371)		<a href="#">GY-08500-74</a>		
<b>Pipe-plug 304 SS probes with 1/4" NPT(M) (ungrounded).</b> Use wherever space is limited. Probe is flush with bottom of fitting for fast response. Withstand pressure to 1000 psi at ambient temperatures.						
J	Probe inside 1/4" NPT Cable: 5-ft, 24 gauge insulated Miniconnector	-310 to 900 (-190 to 482)	±5.9°F (±3.3°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-08517-73</a>		
K		-418 to 900 (-250 to 482)		<a href="#">GY-08516-73</a>		
T		-418 to 700 (-250 to 371)		<a href="#">GY-08500-73</a>		
<b>Flow-through 316 SS probes (grounded);</b> connect to 1/4" OD tubing systems. Use with clean fluids at flow rates up to 50 LPM; withstand pressure to 250 psi. Includes brass union tee.						
K	Sheath: 3.375"L Head: 2"L Miniconnector	-418 to 450 (-250 to 232)	±4.0°F (±2.2°C), or ±0.4% of rdg above 32°F (0°C); ±2.0% of rdg below 32°F (0°C)	<a href="#">GY-93835-02</a>		

†Temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless steel handles are rated to 450°F (232°C).

††Overall probe sheath lengths may vary up to ±0.25".

## Digi-Sense® 400-Series Thermistor Probes

Get accurate readings over biological range



Thermistor probes offer excellent accuracy over the biological temperature range. Electrically isolated probes include a non-detachable 10-ft lead with phone plug (except as noted). Water-resistant junctions between probe leads should not be immersed; detachable leads are not water resistant. Probes are accurate to  $\pm 0.2^\circ\text{F}$  from 32 to 150°F ( $\pm 0.1^\circ\text{C}$  from 0 to 70°C).

Dimensions†	Temperature range °F (°C)††	Accuracy	Catalog number	Price	Photo
<b>General-purpose immersion probe, 316 SS with ABS handle.</b> For use with liquids, gases, and semisolids.					
Sheath: 10"L x 0.188" dia Handle: 5.5"L Cable: 5-ft coil cord Phone plug	-40 to 212 (-40 to 100)	$\pm 0.2^\circ\text{F}$ from 32 to 150°F ( $\pm 0.1^\circ\text{C}$ from 0 to 70°C)	<a href="#">GY-93824-00</a>		
<b>General-purpose immersion probe, PFA-coated 316 SS with ABS handle.</b> For use with liquids, gases, and semisolids.					
Sheath: 10"L x 0.200" dia Handle: 5.5"L Cable: 5-ft coil cord Phone plug	-40 to 212 (-40 to 100)	$\pm 0.2^\circ\text{F}$ from 32 to 150°F ( $\pm 0.1^\circ\text{C}$ from 0 to 70°C)	<a href="#">GY-93824-12</a>		
<b>Penetration probe, 316 SS with ABS handle.</b> For use with liquids, gases, and semisolids.					
Sheath: 4"L x 0.188 dia Handle: 5.5"L Cable: 5-ft coil cord Phone plug	-40 to 212 (-40 to 100)	$\pm 0.2^\circ\text{F}$ from 32 to 150°F ( $\pm 0.1^\circ\text{C}$ from 0 to 70°C)	<a href="#">GY-93824-30</a>		
<b>Penetration probe, 316 SS with miniature stainless steel handle.</b> For insertion into semi-solids such as food. Industry number 418.					
Sheath: 4.6875"L x 0.156 dia Handle: 1.25"L Cable: 10-ft PVC cable Phone plug	-40 to 212 (-40 to 100)	$\pm 0.2^\circ\text{F}$ from 32 to 150°F ( $\pm 0.1^\circ\text{C}$ from 0 to 70°C)	<a href="#">GY-08491-16</a>		
<b>Flexible PVC insulated sheath and tip wire probe.</b> Immersible for short-term deep-water and sub soil readings. Industry number 401.					
Sheath/tip: 0.5"L x 0.25" dia (PVC coated tip) Cable: 10-ft cable. Phone plug.	-40 to 212 (-40 to 100)	$\pm 0.2^\circ\text{F}$ from 32 to 150°F ( $\pm 0.1^\circ\text{C}$ from 0 to 70°C)	<a href="#">GY-08491-02</a>		
Sheath/tip: 0.5"L x 0.25" dia (PVC coated tip) Cable: 50-ft cable. Phone plug.			<a href="#">GY-08491-04</a>		
<b>Flexible PVC insulated sheath and tip wire probe.</b> Industry number 403.					
Sheath/tip: 13"L x 0.125" dia (PVC coated tip) Cable: 10-ft cable Phone plug	-40 to 212 (-40 to 100)	$\pm 0.2^\circ\text{F}$ from 32 to 150°F ( $\pm 0.1^\circ\text{C}$ from 0 to 70°C)	<a href="#">GY-08491-05</a>		
<b>Deep water/soil probe, 316 SS probe with waterproof PFA seal.</b> Weighted and insulated for continuous use underwater					
Sheath: 2"L x 0.25" dia Handle: 3"L x 0.562" dia Cable: 50-ft PVC flexible cable Phone plug	-40 to 212 (-40 to 100)	$\pm 0.2^\circ\text{F}$ from 32 to 150°F ( $\pm 0.1^\circ\text{C}$ from 0 to 70°C)	<a href="#">GY-93823-00</a>		
<b>Liquid-immersion probe, 304 SS.</b> Immersible only to cap.					
Sheath: 4.5"L x 0.156" dia Handle: 1.25"L x 0.25" dia Cable: 10-ft cable Phone plug	-40 to 212 (-40 to 100)	$\pm 0.2^\circ\text{F}$ from 32 to 150°F ( $\pm 0.1^\circ\text{C}$ from 0 to 70°C)	<a href="#">GY-08491-06</a>		
<b>Liquid-immersion probe, PYREX® glass.</b> For thermometric titrations. Industry number 404.					
Sheath: 5"L x 0.187" dia Cable: 10-ft cable Phone plug	-40 to 212 (-40 to 100)	$\pm 0.2^\circ\text{F}$ from 32 to 150°F ( $\pm 0.1^\circ\text{C}$ from 0 to 70°C)	<a href="#">GY-08491-13</a>		
<b>Surface probe, 316 SS with stainless steel handle.</b> For use on flat surface, and soil temperatures. Industry number 409.					
Sheath: 3.625"L x 0.058" dia Disk: 0.106" dia; Handle: 1.25"L Cable: 10-ft cable Phone plug	-40 to 212 (-40 to 100)	$\pm 0.2^\circ\text{F}$ from 32 to 150°F ( $\pm 0.1^\circ\text{C}$ from 0 to 70°C)	<a href="#">GY-08491-09</a>		
<b>Surface probe, epoxy-backed 316 SS disk with stainless steel handle and flexible wire.</b> Not electrically isolated or autoclavable and with non-detachable lead. Industry number 427.					
Sheath: 24"L (flexible wire) Disk: 0.106" dia; Handle: 1.25"L Cable: 10-ft cable Phone plug	-40 to 212 (-40 to 100)	$\pm 0.2^\circ\text{F}$ from 32 to 150°F ( $\pm 0.1^\circ\text{C}$ from 0 to 70°C)	<a href="#">GY-08491-11</a>		
<b>Surface probe, epoxy-backed 316 SS disk with flexible PVC covered leads.</b> Recommended for flat-surface temperature measurements. Industry number 409B.					
Disk: 0.375" dia x 0.125"D Cable: 10-ft cable Phone plug	-40 to 212 (-40 to 100)	$\pm 0.2^\circ\text{F}$ from 32 to 150°F ( $\pm 0.1^\circ\text{C}$ from 0 to 70°C)	<a href="#">GY-08491-10</a>		
<b>1/8-NPT fitting probe, 316 SS.</b> For closed pipes or vessels. Probe and fitting are autoclavable except lead; lead is detachable via BNC connector. Not electrically isolated. Industry number 416.					
Sheath: 1"L x 0.156" dia (total length 3.25") Cable: 10-ft cable Phone plug	-40 to 212 (-40 to 100)	$\pm 0.2^\circ\text{F}$ from 32 to 150°F ( $\pm 0.1^\circ\text{C}$ from 0 to 70°C)	<a href="#">GY-08491-14</a>		
<b>Air temperature probe, 316 SS.</b> For test rooms, gas stream temperatures, and incubators. 316 SS cage around epoxy-encapsulated thermistor. Industry number 405.					
Sheath: 1.875"L x 0.50" dia 10-ft cable Phone plug	-40 to 212 (-40 to 100)	$\pm 0.2^\circ\text{F}$ from 32 to 150°F ( $\pm 0.1^\circ\text{C}$ from 0 to 70°C)	<a href="#">GY-08491-08</a>		

††Temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to 220°F (104°C); PVC handles are rated to 200°F (93°C); Stainless steel handles are rated to 450°F (232°C).











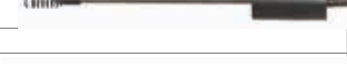

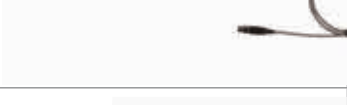


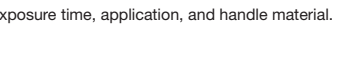
†Overall probe sheath lengths may vary up to  $\pm 0.25"$ .

### Digi-Sense® RTD Probes

No need to settle—we'll customize for you



Choose from a variety of general purpose, sharp penetration tip, hypodermic-tip, or air/gas RTD probes. Probes with handles feature a strain relief spring that protects the cable connection against damage due to repeated flexing and tugging. Acrylonitrile butadiene styrene (ABS) handles provide a light weight design for ease of use along with durability. Maximum error for probe is  $\pm 1.1^{\circ}\text{C}$ ,  $\pm 0.12\%$  of reading. Alpha coefficient is  $0.003850 \Omega/\Omega/^{\circ}\text{C}$  (DIN IEC 751). Resistance at ice point ( $0^{\circ}\text{C}$ ) is  $100\Omega$ .

Description	Dimensions†	Temperature range in $^{\circ}\text{F}$ ( $^{\circ}\text{C}$ )††	With 3-pin connector		With ANSI connector		Photo
			Cat. no.	Price	Cat. no.	Price	
<b>316 stainless steel RTD probes with ABS handle, <math>100\Omega</math> RTD probes for general-purpose use. Use with liquids, gases and semisolids.</b>							
General-purpose immersion probe	Sheath: 10"L x 0.188" dia Handle: 5.5"L Cable: 5-ft coiled cord	-58 to 932 (-50 to 500)	<a href="#">GY-08117-70</a>		<a href="#">GY-93831-70</a>		
	Sheath: 18"L x 0.188" dia Handle: 5.5"L Cable: 5-ft coiled cord		<a href="#">GY-08117-72</a>		<a href="#">GY-93831-71</a>		
Bendable immersible probe	Sheath: 10"L x 0.125" dia Handle: 5.5"L; Cable: 5-ft coiled cord Bendable area: 6" (1" from base)	-58 to 932 (-50 to 500)	<a href="#">GY-08117-73</a>		<a href="#">GY-93831-73</a>		
	Sheath: 18"L x 0.125" dia Handle: 5.5"L; Cable: 5-ft coiled cord Bendable area: 14" (1" from base)		<a href="#">GY-08117-74</a>		<a href="#">GY-93831-74</a>		
PFA-coated general purpose probe	Sheath: 10"L x 0.145" dia Handle: 5.5"L Cable: 5-ft coiled cord	-58 to 400 (-50 to 204)	<a href="#">GY-08117-87</a>		<a href="#">GY-93831-87</a>		
Surface probe	Tip: 1.5"L x 0.250" dia Sheath: 6.5"L x 0.188" dia (total length 8") Handle: 5.5"L; Cable: 5-ft coiled cord	-58 to 932 (-50 to 500)	<a href="#">GY-08117-75</a>		<a href="#">GY-93831-75</a>		
Hypodermic Needle probe	Sheath: 2"L x 0.093" dia Handle: 5.5"L Cable: 5-ft coiled cord	-58 to 700 (-50 to 311)	<a href="#">GY-08117-80</a>		<a href="#">GY-93831-80</a>		
Penetration probe	Sheath: 4"L x 0.188" dia Handle: 5.5"L Cable: 5-ft coiled cord	-58 to 900 (-50 to 482)	<a href="#">GY-08117-85</a>		<a href="#">GY-93831-85</a>		
Air/gas probe	Tip: 1.25"L x 0.250" dia Sheath: 8.75"L x 0.188" dia (total length 10"); Handle: 5.5"L; Cable: 5-ft coiled cord	-58 to 932 (-50 to 500)	<a href="#">GY-08117-90</a>		<a href="#">GY-93831-90</a>		
<b>Compact 316 stainless steel RTD probe with PVC handle, <math>100\Omega</math> RTD probes for general-purpose use. Use with liquids, gases and semisolids.</b>							
General-purpose probe	Sheath: 4.5"L x 0.125" dia Handle: 1.25"L Cable: 5-ft coiled cord	-58 to 750 (-50 to 398)	<a href="#">GY-93821-00</a>		<a href="#">GY-93831-00</a>		
PFA-insulated probe	Sheath: 4.5"L x 0.145" dia Handle: 1.25"L Cable: 5-ft coiled cord	-58 to 400 (-50 to 204)	<a href="#">GY-93821-06</a>		<a href="#">GY-93831-06</a>		
Penetration probe	Sheath: 2.5"L x 0.125" dia Handle: 1.25"L Cable: 5-ft coiled cord	-58 to 750 (-50 to 398)	<a href="#">GY-93821-10</a>		<a href="#">GY-93831-10</a>		
Surface probe	Tip: 1.5"L x 0.250" dia Sheath: 4"L x 0.188" dia (total length 5.5") Handle: 1.25"L; Cable: 5-ft coiled cord	-58 to 900 (-50 to 482)	<a href="#">GY-93821-15</a>		<a href="#">GY-93831-15</a>		
Air/gas probe	Tip: 0.5"L x 0.188" dia Sheath: 4.5"L x 0.125" dia (total length 5") Handle: 1.25"L; Cable: 5-ft coiled cord	-58 to 900 (-50 to 482)	<a href="#">GY-93821-20</a>		<a href="#">GY-93831-20</a>		
<b>Special-purpose RTD probes, <math>100\Omega</math> RTD probes Ideal for long-term applications or unique environments.</b>							
Bendable sheath probes with miniature stainless steel handle	Sheath: 9"L x 0.125" dia; Handle: 1.5"L Cable: 3-ft, 316 SS braid over fiberglass Bendable area: 5" (1" from base)	-58 to 932 (-50 to 500)	<a href="#">GY-08117-97</a>		<a href="#">GY-93831-97</a>		
	Sheath: 12"L x 0.125" dia; Handle: 1.5"L Cable: 3-ft, 316 SS braid over fiberglass Bendable area: 8" (1" from base)		<a href="#">GY-08117-98</a>		<a href="#">GY-93831-98</a>		
	Sheath: 18"L x 0.125" dia; Handle: 1.5"L Cable: 3-ft, 316 SS braid over fiberglass Bendable area: 14" (1" from base)		<a href="#">GY-08117-99</a>		<a href="#">GY-93831-99</a>		
High temperature probe, three-wire element	Sheath: 1.5"L x 0.188" dia, Cable: 5-ft 304 SS braid over fiberglass	-58 to 900 (-50 to 482)	<a href="#">GY-08117-96</a>		<a href="#">GY-93831-96</a>		
High temperature probe, three-wire element	Sheath: 1.5"L x 0.188" dia, Cable: 4-ft 304 SS braid over fiberglass with stripped ends	-58 to 900 (-50 to 482)	-	-	<a href="#">GY-93822-00</a>		
Bolt-on RTD probe, three-wire element	Screw mount: 1"L x 0.812" W Sheath: Aluminum; Cable: 5-ft FEP insulation wire with stripped ends	-58 to 400 (-50 to 204)	-	-	<a href="#">GY-93822-50</a>		

††Temperature range is for the probe tip only. The handle material may be affected if the probe is rated higher than the handle depending on exposure time, application, and handle material. ABS handles are rated to  $220^{\circ}\text{F}$  ( $104^{\circ}\text{C}$ ); PVC handles are rated to  $200^{\circ}\text{F}$  ( $93^{\circ}\text{C}$ ); Stainless steel handles are rated to  $450^{\circ}\text{F}$  ( $232^{\circ}\text{C}$ ).

†Overall probe sheath lengths may vary up to  $\pm 0.25$ ".

## Digi-Sense® High-Accuracy PRT/RTD Temperature Reference Probes

**NEW**

Save money while maintaining high-accuracy



Temperature Probes

**AM1640 Series—Precision industrial PRT/RTD probes:** Conform to the standard 385 curve, letting you use your DIN/IEC RTD meters fully. Resist vibration and shock with coil suspension design and a mineral-insulated sheath with minimum bend radius of 19 mm (¾") for more flexibility and durability. All have an accuracy of 35 mK at 0°C and short-term stability of 10 mK at 0°C.

**AM1730 and AM1750 Series—Secondary reference PRT/RTD probes:** With a calibration uncertainty at 0°C of just ±0.015°C, these probes fully meet ITS-90 criteria for reference thermometers. The unique design achieves an excellent balance between hysteresis effect and mechanical/thermal shocks. Both series boast very low short-term stability of 7 mK at triple point of water (TPW).

**AM1612 and AM1642 Series—Full-immersion PRT/RTD probes:** Stand up to the heat—both junction and lead wires withstand full operating range of temperatures. Applications include calibration or validation of sensors used in laboratory or biology freezers, walk-in refrigerators, autoclaves, ovens, stability test chambers, furnaces, and incubators. These probes feature short term stability of 20 mK at triple point of water (TPW) and long term drift of 40 mK at TPW.

**AM1760 and AM1762 Series—Secondary standard SPRT/RTD probes:** These probes fill the gap between affordable, but temperature-limited secondary PRTs and more expensive, yet highly accurate SPRTs. Stable both short term (±2 mK at TPW) and long term (<19 mK typical at TPW after 500 hours) with an accuracy of ±6 mK at TPW. These high-performance probes fully meet ITS-90 criteria for reference thermometers and are an excellent choice for reference standards for metrology labs of various levels. The AM1760 is nominally 100 W and the AM1762 is nominally 25.5 W.



Model number†	Equivalent Fluke Calibration / Hart Scientific Model	Applications	Probe diameter	Probe length	Probe termination	Temperature range	Accuracy at 0°C	Typical drift at 0°C	Catalog number	Price
<b>AM1612 Series—full-immersion PRT/RTD probes</b>										
AM1612-B	5606-50-B	Freezer, bath or dry well	3 mm (1/8")	51 mm (2")	Bare wire Spade	-196 to 180°C (-321 to 356°F)	±0.05°C	±0.04°C (after 100 hrs)	<a href="#">GY-90452-08</a>	
AM1612-S	5606-50-L									
AM1612-M	5606-50-S									
AM1612-P	5606-50-D									
<b>AM1640 Series—precision industrial PRT/RTD probes</b>										
AM1640-12-B	5627A-12-B	Dry well or micro bath	6.35 mm (1/4")	305 mm (12")	Bare wire Spade	-200 to 420°C (-328 to 788°F)	±0.05°C	±0.04°C (after 100 hrs)	<a href="#">GY-90452-20</a>	
AM1640-12-S	5627A-12-M									
AM1640-12-M	5627A-12-S									
AM1640-12-P	5627A-12-D									
<b>AM1642 Series—full-immersion PRT/RTD probes</b>										
AM1642-B	5607-75-B	Autoclave, oven, furnace or dry well	3 mm (1/8")	100 mm (4")	Bare wire Spade	0 to 420°C (32 to 788°F)	±0.05°C	±0.04°C (after 100 hrs)	<a href="#">GY-90452-24</a>	
AM1642-S	5607-75-M									
AM1642-M	5607-75-S									
AM1642-P	5607-75-D									
<b>AM1730 Series—secondary reference PRT/RTD probes</b>										
AM1730-12-B	5615-12-B / 5616-12-B	Bath or dry well	6.35 mm (1/4")	305 mm (12")	Bare wire Spade	-200 to 420°C (-328 to 788°F)	±0.015°C	±0.01°C (after 100 hrs)	<a href="#">GY-90452-32</a>	
AM1730-12-S	5615-12-M / 5616-12-M									
AM1730-12-M	5615-12-S / 5616-12-S									
AM1730-12-P	5615-12-D / 5616-12-D									
<b>AM1750 Series—secondary reference PRT/RTD probes</b>										
AM1750-12-B	5609-12-B	Autoclave, oven, furnace or dry well	6.35 mm (1/4")	305 mm (12")	Bare wire Spade	-200 to 670°C (-328 to 1238°F)	±0.015°C	±0.01°C (after 100 hrs)	<a href="#">GY-90452-40</a>	
AM1750-12-S	5609-12-M									
AM1750-12-M	5609-12-S									
AM1750-12-P	5609-12-D									
<b>AM1760 Series—secondary standard SPRT/RTD probes</b>										
AM1760-12-B	5626-12-B	Dry well or micro bath	6.35 mm (1/4")	305 mm (12")	Bare wire Spade	-200 to 670°C (-328 to 1238°F)	±0.006°C	±0.004°C (after 100 hrs)	<a href="#">GY-90452-48</a>	
AM1760-12-S	5626-12-M									
AM1760-12-M	5626-12-S									
AM1760-12-P	5626-12-D									
AM1760-20-B	5626-20-B	Dry well or micro bath	6.35 mm (1/4")	500 mm (20")	Bare wire Spade	-200 to 670°C (-328 to 1238°F)	±0.006°C	±0.004°C (after 100 hrs)	<a href="#">GY-90452-52</a>	
AM1760-20-S	5626-20-M									
AM1760-20-M	5626-20-S									
AM1760-20-P	5626-20-D									
<b>AM1762 Series—secondary standard SPRT/RTD probes</b>										
AM1762-12-B	5628-12-B	Bath or dry well	6.35 mm (1/4")	305 mm (12")	Bare wire Spade	-200 to 670°C (-328 to 1238°F)	±0.006°C	±0.004°C (after 100 hrs)	<a href="#">GY-90452-56</a>	
AM1762-12-S	5628-12-M									
AM1762-12-M	5628-12-S									
AM1762-12-P	5628-12-D									
AM1762-20-B	5628-20-B	Bath or dry well	6.35 mm (1/4")	500 mm (20")	Bare wire Spade	-200 to 670°C (-328 to 1238°F)	±0.006°C	±0.004°C (after 100 hrs)	<a href="#">GY-90452-60</a>	
AM1762-20-S	5628-20-M									
AM1762-20-M	5628-20-S									
AM1762-20-P	5628-20-D									

†Digi-Sense termination codes: "B" (bare wire), "M" (mini spade lugs), "P" (5-pin DIN for Tweener thermometers), "S" (spade lugs); other terminations are available upon request. Note: Probes may be available in different lengths and terminations than what is shown in the ordering table above; please contact our Application Specialists for special order options.

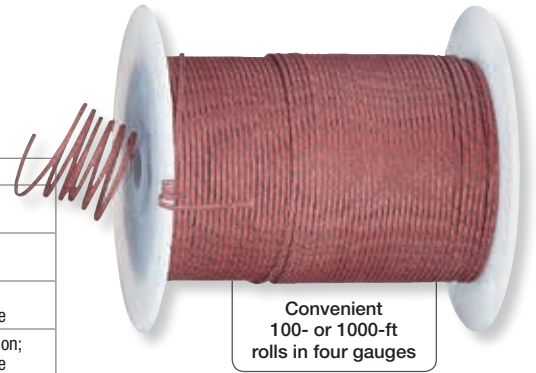
- [GY-90452-76](#) Protective wood carrying case for probes up to 305 mm (12") long
- [GY-90452-77](#) Protective wood carrying case for probes up to 500 mm (20") long
- [GY-17001-04](#) NIST-traceable calibration with data for RTD probes

## Temperature

### Digi-Sense® Thermocouple Wire Make your own extension cables



Wire comes in 30, 24, 20, or 16 gauge for fabricating your own probes or extension cables (meets ANSI and ASTM standards). Choose from wire with polyvinyl chloride (PVC), fluorinated ethylene propylene resin (FEP/FEP), fiberglass, high-temperature fiberglass, or ceramic fiber outer/inner insulation.



Convenient 100- or 1000-ft rolls in four gauges

Insulation type (outer/inner)	Temperature range	Advantages
Polyvinyl	-20 to 221°F (-28 to 105°C)	Good moisture and abrasion resistance
FEP/FEP	-328 to 400°F (-200 to 204°C)	Excellent chemical and moisture resistance; very good abrasion resistance
Glass braid	-100 to 900°F (-73 to 482°C)	Excellent chemical and flame resistance; fair moisture resistance; good abrasion resistance
High-temp fiberglass braid	0 to 1400°F (-18 to 750°C)	Higher temperatures than regular fiberglass insulation; fair moisture resistance; good abrasion resistance
Ceramic fiber braid	0 to 2200°F (-18 to 1427°C)	Intermittent temperatures to 3000°F (1649°C); fair moisture and abrasion resistance

Wire type	Wire gauge	Wire temp rating (Max)	Inner insulation	Outer insulation	Stranded/Solid	Over-braid	Special features	Catalog number	Price/rl of 100 ft	Catalog number	Price /rl of 1000 ft
J	20	221°F	Polyvinyl	Polyvinyl	Solid	No	—	<a href="#">GY-08541-16</a>		<a href="#">GY-08542-15</a>	
J	20	400°F	FEP	FEP	Solid	No	—	<a href="#">GY-08541-17</a>		<a href="#">GY-08542-16</a>	
J	20	900°F	Glass braid	Glass braid	Solid	No	—	<a href="#">GY-08541-18</a>		<a href="#">GY-08542-17</a>	
J	30	400°F	FEP	FEP	Solid	No	—	<a href="#">GY-08541-00</a>		<a href="#">GY-08542-00</a>	
J	30	900°F	Glass braid	Glass braid	Solid	No	—	<a href="#">GY-08541-01</a>		<a href="#">GY-08542-01</a>	
K	20	1300°F	High temp glass braid	High temp glass braid	Solid	No	Special limits of error (±4%)	<a href="#">GY-08541-23</a>		<a href="#">GY-08542-22</a>	
K	20	2200°F	Ceramic fiber braid	Ceramic fiber braid	Solid	No	—	<a href="#">GY-08541-24</a>		<a href="#">GY-08542-23</a>	
K	20	221°F	Polyvinyl	Polyvinyl	Solid	No	—	<a href="#">GY-08541-20</a>		<a href="#">GY-08542-19</a>	
K	20	221°F	Polyvinyl	Polyvinyl	Solid	No	BoPET shield and drain wire	<a href="#">GY-08541-48</a>		<a href="#">GY-08542-41</a>	
K	20	400°F	FEP	FEP	Solid	No	—	<a href="#">GY-08541-21</a>		<a href="#">GY-08542-20</a>	
K	20	900°F	Glass braid	Glass braid	Solid	No	—	<a href="#">GY-08541-22</a>		<a href="#">GY-08542-21</a>	
K	24	221°F	Polyvinyl	Polyvinyl	Solid	No	—	<a href="#">GY-08541-09</a>		<a href="#">GY-08542-09</a>	
K	24	400°F	FEP	FEP	Solid	No	—	<a href="#">GY-08541-10</a>		<a href="#">GY-08542-10</a>	
K	24	900°F	Glass braid	Glass braid	Solid	No	—	<a href="#">GY-08541-11</a>		<a href="#">GY-08542-11</a>	
K	30	400°F	FEP	FEP	Solid	No	Special limits of error (±4%)	<a href="#">GY-08541-02</a>		<a href="#">GY-08542-02</a>	
K	30	900°F	Glass braid	Glass braid	Solid	No	—	<a href="#">GY-08541-03</a>		<a href="#">GY-08542-03</a>	
T	20	221°F	Polyvinyl	Polyvinyl	Solid	No	—	<a href="#">GY-08541-25</a>		<a href="#">GY-08542-24</a>	
T	24	221°F	Polyvinyl	Polyvinyl	Solid	No	—	<a href="#">GY-08541-12</a>		<a href="#">GY-08542-12</a>	
T	24	221°F	Polyvinyl	Polyvinyl	Solid	No	—	<a href="#">GY-08541-45</a>		<a href="#">GY-08542-38</a>	
T	24	400°F	FEP	Glass braid	Solid	No	—	<a href="#">GY-08541-13</a>		<a href="#">GY-08542-13</a>	
T	24	900°F	Glass braid	Glass braid	Solid	No	—	<a href="#">GY-08541-14</a>		<a href="#">GY-08542-14</a>	
T	30	400°F	FEP	FEP	Solid	No	Special limits of error (±4%)	<a href="#">GY-08541-04</a>		<a href="#">GY-08542-04</a>	
T	30	900°F	Glass braid	Glass braid	Solid	No	—	<a href="#">GY-08541-05</a>		<a href="#">GY-08542-05</a>	

### 20-Gauge Extension Cables

- PVC/PVC insulation
- Maximum temperature: 221°F (105°C)



A 25-ft cable is available. Contact your local dealer for more information.

Type	10-ft length miniconnector cable		50-ft length miniconnector cable	
	Catalog number	Price	Catalog number	Price
J	<a href="#">GY-08517-30</a>		<a href="#">GY-08517-50</a>	
K	<a href="#">GY-08516-30</a>		<a href="#">GY-08516-50</a>	
T	<a href="#">GY-08505-30</a>		<a href="#">GY-08505-50</a>	

### Coiled Extension Cables

Each coiled extension cable is ANSI color-coded with miniconnector on each end. Measure 5 ft (1.5 m) long when fully extended. Maximum temperature: 221°F (105°C).



Type	Connections	Cat. no.	Price
J	Male to female (plug to jack)	<a href="#">GY-93785-00</a>	
K		<a href="#">GY-93785-02</a>	
T		<a href="#">GY-93785-04</a>	
J	Male to male (plug to plug)	<a href="#">GY-93785-10</a>	
K		<a href="#">GY-93785-12</a>	
T		<a href="#">GY-93785-14</a>	

### Digi-Sense® Thermocouple Connectors



Connectors withstand continuous temperature of 350°F (177°C) and maximum temperature of 400°F (204°C). Feature glass-filled nylon casing with finger grips and polarity indicators; negative terminals are marked with red discs for easy identification. Miniconnectors accept miniature cable clamps and cable up to 20 gauge; standard connectors accept standard cable clamps and cable up to 16 gauge.

Type	Connection	Color	Miniconnectors				Standard connectors			
			Pack of 10		Pack of 100		Pack of 10		Pack of 100	
			Cat. no.	Price	Cat. no.	Price	Cat. no.	Price	Cat. no.	Price
J	Plug	Black	<a href="#">GY-93840-50</a>		<a href="#">GY-93841-50</a>		<a href="#">GY-93840-60</a>		<a href="#">GY-93841-60</a>	
J		Black	<a href="#">GY-93840-51</a>		<a href="#">GY-93841-51</a>		<a href="#">GY-93840-61</a>		<a href="#">GY-93841-61</a>	
K	Jack	Yellow	<a href="#">GY-93840-52</a>		<a href="#">GY-93841-52</a>		<a href="#">GY-93840-62</a>		<a href="#">GY-93841-62</a>	
K		Yellow	<a href="#">GY-93840-53</a>		<a href="#">GY-93841-53</a>		<a href="#">GY-93840-63</a>		<a href="#">GY-93841-63</a>	
T	Plug	Blue	<a href="#">GY-93840-54</a>		<a href="#">GY-93841-54</a>		<a href="#">GY-93840-64</a>		<a href="#">GY-93841-64</a>	
T		Blue	<a href="#">GY-93840-55</a>		<a href="#">GY-93841-55</a>		<a href="#">GY-93840-65</a>		<a href="#">GY-93841-65</a>	



Type K miniconnector jack and plug



Type J standard connector plug and jack