

Cole-Parmer® Gas Sampling Bags

Corrosive-resistant Kynar® PVDF

- Strong seams for added durability

All standard models have either an on/off valve (3/16" nickel-plated brass hose barb) or a silicone septum in polypropylene housing; dual-valve models have both. Max temp: 160°F (71°C). Individually sealed in a dust-protected outer bag that also blocks out sunlight.

Standard Kynar PVDF Bags

Single-wide seam; available in 3-mil and 4-mil thick styles.

Volume	Dimensions (L x W)	On/off valve		Septum valve	
		Cat. no.	Price	Cat. no.	Price
Standard 3-mil bag					
0.3 L	6" x 6" (15.2 x 15.2 cm)	GY-01410-10		GY-01410-30	
1.6 L	9" x 9" (22.9 x 22.9 cm)	GY-01410-11		GY-01410-31	
3.8 L	12" x 12" (30.5 x 30.5 cm)	GY-01410-12		GY-01410-32	
8.1 L	15" x 15" (38.1 x 38.1 cm)	GY-01410-13		GY-01410-33	
20.3 L	18" x 18" (45.7 x 45.7 cm)	GY-01410-14		GY-01410-34	
37.7 L	24" x 24" (61.0 x 61.0 cm)	GY-01410-15		GY-01410-35	
85.7 L	30" x 30" (76.2 x 76.2 cm)	GY-01410-16		GY-01410-36	
Standard 4-mil bag					
1.6 L	9" x 9" (22.9 x 22.9 cm)	GY-01410-21		—	
3.8 L	12" x 12" (30.5 x 30.5 cm)	GY-01410-22		—	
8.1 L	15" x 15" (38.1 x 38.1 cm)	GY-01410-23		—	



Dual-Valve Kynar PVDF Bags

Single-wide seamed bags have both on/off and septum valves for convenient mixing.

Volume	Dimensions (L x W)	Catalog number	Price
0.3 L	6" x 6" (15.2 x 15.2 cm)	GY-01410-50	
1.6 L	9" x 9" (22.9 x 22.9 cm)	GY-01410-51	
3.8 L	12" x 12" (30.5 x 30.5 cm)	GY-01410-52	
8.1 L	15" x 15" (38.1 x 38.1 cm)	GY-01410-53	
20.3 L	18" x 18" (45.7 x 45.7 cm)	GY-01410-54	
37.7 L	24" x 24" (61.0 x 61.0 cm)	GY-01410-55	
85.7 L	30" x 30" (76.2 x 76.2 cm)	GY-01410-56	

Tedlar® Sampling Bags with Combination Valve

Easy control, single fitting with on/off valve and septum port

- Solid seam construction for added strength
- Corner opening with grommet allows tagging or hanging during transport and storage
- Includes certificate documenting lot compliance

Gas sampling bags are constructed of 2-mil thick Tedlar® with a solid seam to keep gases contained. Unique, polypropylene combination valve features a 1/8" OD on/off stem suitable for tubing connections and integral PTFE/silicone septum for syringe sampling. Low permeability.

Volume	Dimensions (L x W)		Qty/cs	Catalog number	Price/cs
	in.	cm			
1 L	7 x 7	17.8 x 17.8	10	GY-86561-00	
3 L	9 x 12	22.9 x 30.5	10	GY-86561-02	
5 L	12 x 12	30.5 x 30.5	10	GY-86561-04	
10 L	12 x 19	30.5 x 48.3	10	GY-86561-06	



Reinforced grommet is ideal for tagging or hanging bags.

Air Sampler

Set sample times to your needs

- Use keypad to adjust sample times: 0.5, 1, 2, 4, and 8 minutes
- Centrifugal motion draws sample at 40 L/min
- Ideal for air quality, clean area, and food and beverage applications
- Lightweight, compact design for portability and ease of use

The air sampler delivers reliable, reproducible results for applications assessing the quality of ambient air. Sampler operates on impaction principle, drawing airborne microorganisms onto an agar media strip for later incubation and analysis. LED indicators provide visual indication of each sampling run. Rugged housing is chrome-plated brass with autoclavable, aluminum impeller blade and drum. Order batteries and agar strips separately at right.

What's included: impeller assembly and carrying case.



Head material	Dimensions (W x H x D)		Power	Catalog number	Price
	in.	cm			
Aluminum	2 x 14 x 2	5.1 x 35.6 x 5.1	Four D batteries	GY-86509-00	



Accessories

- [GY-09376-03](#) Batteries, D. Pack of 4
- [GY-86509-60](#) Empty agar strips. Box of 50
- [GY-86509-62](#) DG 18 agar strips. Box of 25

Particle Counter with Built-in Camera

Maintain optimal cleanroom air quality

NEW

- Generate comprehensive air quality reports with video, photos, and data points
- Simultaneously measure up to six channels of different particle sizes down to 0.3 µm
- Built-in camera records video and captures still images
- Also monitors temperature, humidity, dew point, and wet bulb

Store up to 5000 records and 20 minutes of video in internal memory. Each record includes date, time, counts, humidity, temperature, sample volumes, and location label. Expand memory via microSD card slot (memory card not included; max size 8 GB).

Unit also features Max, Min, difference, and average recordings; selectable sample time, count data, and programmable delay; audible and visual alarm with programmable limit (particle size); and four language selection.

What's included: tripod, filter, software, USB cable, NiMH battery with universal AC adapter/charger, protective case, and NIST-traceable calibration report supplied by the manufacturer.



Specifications

Flow rate: 0.1 cfm	Camera: 320 x 240 pixels
Minimum sensitivity: 0.3 µm	Operating conditions: 32 to 122°F (0 to 50°C, 10 to 90% RH (noncondensing))
Air temperature range: 32 to 122°F (0 to 50°C)	Power: rechargeable NiMH battery with AC adapter/charger
Temperature accuracy: ±0.9°F (0.5°C) from 50 to 104°F (10 to 40°C); ±1.8°F (1.0°C) all other ranges	Battery life: 4 hours of continuous use
Humidity range: 0 to 100% RH	
Humidity accuracy: ±3% RH from 40 to 60% RH; ±3.5% RH from 20 to 40% RH and 60 to 80% RH; ±5.0% RH from 0 to 20% RH and 80 to 100% RH	

Particle size	Memory	Display	Output	Catalog number	Price
Six channels: 0.3, 0.5, 1.0, 2.5, 5.0, and 10 µm	Internal memory of 5000 samples and up to 20 minutes of video (up to 74 MB); or use a 8 GB microSD card (not included)	2.8" (7 cm) TFT color LCD with backlight and adjustable brightness	USB	GY-18450-30	

Airborne Particle Counters

Read counts of multiple particle sizes simultaneously

- One handed portability
- Detect particles between 0.3 and 10 µm

Models feature automatic flow control, USB interface for data download, rechargeable batteries, high-impact housing, internal HEPA filter, and audible alarms.

ErgoTouch features three channels for multiple particle size counting (one user selectable), data logger for up to 1500 records, a large backlit LCD, and selectable manual or automatic for the sampling modes.

ErgoTouch Pro features six channels (all user selectable), data logger for 10,000 records, color touch screen with Windows® CE operating system, and password protection. Sampling modes include manual, automatic, beep, concentration, cumulative/differential. Set a threshold alarm for each channel to alert you when a level of particles is exceeded. Generate reports based on ISO 14644-1, EU GMP, and FS 209-E protocols.

Compliance: NIST-traceable calibration report supplied by the manufacturer, ASTM F-50; also meets JIS standard for counting accuracy.

What's included: isokinetic inlet, rechargeable battery pack with charger, software, computer cable, and NIST-traceable calibration report supplied by the manufacturer.



Specifications

Flow rate: 0.1 cfm	Operating conditions: 41 to 95°F (5 to 35°C), 20 to 95% RH (noncondensing)	Power: rechargeable lithium ion battery with 110 to 240 VAC charger
Minimum sensitivity: 0.3 µm		
Illumination source: laser diode		



18450-25 only

Description	Particle size	Memory	Display	Output	Cat. no.	Price
ErgoTouch	3 channels: 0.3, 5.0 µm, and user selectable from 0.5, 1.0, 2.0 or 2.5 µm	1500 data records	Monochrome LCD	USB	GY-18450-20	
ErgoTouch Pro	6 channels: user selectable in 0.1 µm increments from 0.3 to 10.0 µm; calibrated at 0.3, 0.5, 1.0, 3.0, 5.0, and 10.0 µm	10,000 data records	Color touch screen	USB and RS-232	GY-18450-25	

Gas Sampling Accessories

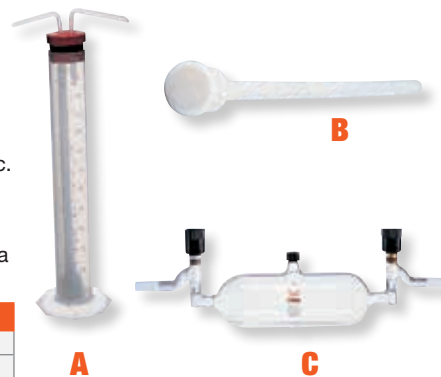
Collect samples with ease

A. Gas Washing Bottle consists of a 250-mL polypropylene graduated cylinder with extended base, a 38-mm vinyl stopper with 1/4" OD tubes, and a removable gas dispersion fitting with 70-µm porosity polyethylene disc. Maximum pressure is 0.5 psi.

B. Gas Dispersion Tube linear polyethylene bell-mouthed fitting has a sealed 70-µm porosity disc.

C. Glass Gas Sampling Bulbs are designed for the collection and storage of environmental samples. Top cap with a PTFE/silicone septum lets you withdraw analytical samples. Both ends have a 4-mm valve plug and are ground to accept 3/8" ferrules and hand compressible fittings for a gas-tight seal. GPI thread size: 13-425.

Key	Description	Volume	Dimensions	Cat. no.	Qty	Price
A	Gas washing bottle	250 mL	Accepts tubes up to 1/4" OD	GY-06652-00	1 ea	
B	Gas dispersion tube	—	12" (30.5 cm) L x 1" (2.5 cm) OD at bell, 3/8" OD tube	GY-06614-25	4/bg	
C	Glass gas sampling bulb	125 mL	11 1/2" L x 3 1/2" W (29.2 x 8.9 cm)	GY-10370-00	1 ea	
		250 mL	11 3/4" L x 3 3/4" W (29.8 x 9.5 cm)	GY-10370-01		



Extreme Personal Monitors

No maintenance required

Operated by an advanced microcontroller and electrochemical sensor, the GasAlertClip Extreme monitors provide continuous, maintenance-free operation for up to two years from the day of activation. These disposable battery-operated monitors are easy to use—simply clip the meter to your pocket or belt and go!



View important gas-reading information and detector life remaining data on the full-feature LCD display. No calibration is required for H₂S or CO; O₂ self calibrates. Monitors feature audible, visible, and vibrating alarms. Each monitor is encased in a shock- and water-resistant ABS enclosure and offers RFI protection to withstand the rigors of industrial and field use.

GasAlertClip3 Extreme offers the same great features plus a three-year sensor.

What's included: alligator belt clip and calibration cap.



Specifications

Alarm: 95 dB at 1 ft (audible/visible/vibrating)

Sensor life: 2 years

Power: 3 V lithium battery (included)

Approvals:

UL: Class I, Div. 1, A, B, C, D; Class I, Zone 0, Group IIC CENELEC: EEx ia IIC

Sensor	Range	Accuracy	Alarm set points		Catalog number	Price
			Low	High		
GasAlertClip with 2-year sensor						
O ₂	0 to 30%	±0.1%	19.5%	23.5%	GY-86383-05	
CO	0 to 300 ppm	±1 ppm	35 ppm	200 ppm	GY-86383-01	
H ₂ S	0 to 100 ppm	±0.3 ppm	10 ppm	15 ppm	GY-86383-03	
SO ₂	0 to 100 ppm	±1 ppm	5 ppm	10 ppm	GY-86383-07	
GasAlertClip3 Extreme with 3-year sensor						
CO	0 to 300 ppm	±1 ppm	35 ppm	200 ppm	GY-86383-11	
H ₂ S	0 to 100 ppm	±0.3 ppm	10 ppm	15 ppm	GY-86383-09	

Multigas Detectors

Verify compliance at a glance

— Bright, extended visual alarm bars for viewing at any angle

Compact and lightweight design with continuous LCD displays real-time gas concentrations. Built-in concussion-proof boot and rated IP66/67. Verify operation from a distance by looking for the IntelliFlash green LED. Additional features include one-button operation, data/event logging, audible/visual/vibrating alarms, user adjustable alarm set points, sensor self-test, and multilanguage capability (English, French, German, Spanish, and Portuguese).



Approvals: CE; CSA Class I, Div. 1, Groups A, B, C, D; ATEX

What's included: calibration cap and tubing, and either rechargeable Li battery pack or three AA alkaline batteries. Models with rechargeable battery pack also include a battery charger.



Specifications

Sensor	Range	Resolution
O ₂	0 to 30%	0.1%
Combustibles	0 to 100% LEL	1% LEL
CO	0 to 1000 ppm	1 ppm
H ₂ S	0 to 200 ppm	0.1 ppm

Alarm: 95 dB (audible), visible, vibrating **Sensor life:** 2 years

Functions: data logging, event logging, STEL, TWA, low, high, and over limit

Gases measured	With rechargeable batteries		With two AA batteries	
	Catalog number	Price	Catalog number	Price
Four-gas detector; O ₂ , LEL, CO, H ₂ S	GY-86418-62		GY-86418-60	
Three-gas detector; O ₂ , LEL, H ₂ S	GY-86418-66		GY-86418-64	
Three-gas detector; O ₂ , LEL, CO	GY-86418-70		GY-86418-68	
Three-gas detector; O ₂ , CO, H ₂ S	GY-86418-74		GY-86418-72	
Two-gas detector; O ₂ , LEL	GY-86418-82		GY-86418-80	

GY-86419-24 Confined-space kit includes manual aspirator, IR connectivity, calibration cap with hose, regulator, sampling probe, carrying holster, and auxiliary filter

GY-86419-26 Carrying case with foam insert

GY-86419-28 External concussion-proof boot

GY-86419-32 Manual aspirator pump

Single-Gas Detectors

Protect yourself all day

- Data log up to 3000 hours with time and date stamp
- Rechargeable lithium-ion battery for 12 hours of operation
- IP 65/67-housing rated for dust and water resistance
- Visible flashing LED, audible 85 dB, and vibrating alarms quickly alert the wearer to potential gas hazards

Recorded data can be downloaded to a PC or printer using the adapter/PC interface (sold separately at right).

Approvals: UL and cUL Class I, Div. 1, Groups A, B, C, D (pending); ATEX; CE

What's included: calibration cap, pocket clip, and rechargeable lithium-ion battery.



Specifications

Alarm: 85 dB (audible), visible, vibrating

Sensor life: 2 years

Functions: STEL, TWA, peak hold, zero, low-battery indicator

Power: rechargeable lithium-ion

Sensor	Range	Resolution	Alarm set points		Catalog number	Price
			Low	High		
O ₂	0 to 25%	0.1%	19.5%	23.5%	GY-86550-00	
CO	0 to 500 ppm	1 ppm	30 ppm	—	GY-86550-02	
H ₂ S	0 to 250 ppm	1 ppm	5 ppm	20 ppm	GY-86550-04	
LEL	0 to 100%	1%	20% LEL	—	GY-86550-06	
SO ₂	0 to 10 ppm	0.1 ppm	2 ppm	—	GY-86550-08	
NO	0 to 100 ppm	1 ppm	25 ppm	—	GY-86550-10	
NO ₂	0 to 10 ppm	0.1 ppm	1 ppm	—	GY-86550-12	
O ₃	0 to 1 ppm	0.1 ppm	0.5 ppm	—	GY-86550-14	

[GY-86550-50](#) Adapter/PC interface, 110 VAC

[GY-86550-51](#) Adapter/PC interface, 230 VAC European



Four-Gas Detector

Easy setup

- Simple one-button operation
- Standard data logger (16 hours) and event logger (10 events)
- IntelliFlash verifies operation and compliance to user and supervisor
- Powered by lithium polymer battery (14-hr typical run time; recharge in less than 3 hours)
- Provides 95 dB alarm tone and bright wide-angled alarm bars
- Equipped with internal vibrating alarm for high-noise areas
- Backlight: in alarm (auto) and on-demand reactivation
- Records TWA, STEL, and maximum exposures to gas and displays readings on command



What's included: Sensors, calibration hose/cap and instructions, stainless steel alligator belt clip, and lithium polymer battery.



Description	Four-gas detector			
Catalog number	GY-86418-25			
Gas	H ₂ S	CO	O ₂	Combustibles
Range	0 to 100 ppm	0 to 500 ppm	0 to 30.0%	0 to 100% LEL, 0 to 5.0% by volume methane
Resolution	1 ppm	1 ppm	0.1%	1% LEL, 0.1% by volume methane
Data logger	All sensor readings, all alarm conditions, calibrations, event flags, battery status, sensor status, confidence beep activation, detector status, time/date for readings, and unit serial number			
Sampling rate	One reading every 15 seconds			
Storage	16 hours of data			
Full function self test	Audible/visual alarms upon activation, sensors, battery and circuitry			
Alarm levels	Instantaneous low and high alarm for all gases; TWA (time weighted average) and STEL (short term exposure limit) for H ₂ S and/or CO; OL (over limit alarm) for combustible gases.			
Approval	CSA intrinsically safe for Class I, Division I, Grade A, B, C, and D			
Power	Rechargeable lithium polymer batteries, 10 to 12 hour run time			
Price				

[GY-17102-23](#) Recalibration service

Four-Gas Detector

Take readings anywhere with integrated sampling pump

- Continuous LCD shows real-time gas concentrations
- Simple auto-calibration procedure
- Visual, vibrating, and audible alarms
- Equipped with standard data logging and event logging

Portable, multigas detector simultaneously monitors and displays four gases: hydrogen sulfide (H₂S), carbon monoxide (CO), oxygen (O₂), and combustibles (%LEL). One-button operation guarantees ease of use, even while wearing gloves. Unit has visual, audible, and vibrating alarms. Unit can be operated in English, French, German, Spanish, and Portuguese.



What's included: 10-ft (3-m) sampling hose with filter, stainless steel belt clip, lithium-ion rechargeable battery, and battery charger.



Description	Four-gas detector			
Catalog number	GY-81990-35			
Gas	H ₂ S	CO	O ₂	Combustibles
Range	0 to 200 ppm	0 to 1000 ppm	0 to 30.0%	0 to 100% LEL, 0 to 5.0% v/v
Resolution	1 ppm	1 ppm	0.10%	1% / 0.1%
Data recorded	All events and occurrences			
Sampling rate	One reading every 5 seconds (standard)			
Visual gas alarm	Flashing, wide-angled alarm lens with dual red LEDs plus alarm LCD readout			
Audible gas alarm	High-output, variable, pulsing siren 95 dB at 1 ft (0.3 m)			
Approval	CSA intrinsically safe for Class I, Division I, Grade A, B, C, and D			
Power	Li-ion rechargeable battery, 13 hr run time			
Price				

IAQ-Calc™ Meters

Maximize HVAC system performance

- Easy-to-use keypad scrolls through all readings at the touch of a button
- Low-drift CO₂ sensor gives stable, accurate readings

The IAQ-Calc CO₂ Meter provides cost-effective CO₂ measurements. The sampling function records multiple point measurements.

The IAQ-Calc Advanced IAQ Meter calculates % outside air from either CO₂ or temperature readings and directly calculates dew point, wet bulb temperature, absolute humidity, and humidity ratio. The dual-line display simultaneously displays multiple parameters. Data logger logs up to 26,900 samples with time/date stamp. The included LogDat2™ software permits easy transfer of data to your computer and the LogDat2 Companion for Excel® automatically graphs all your data.

What's included: carrying case, batteries, and calibration report supplied by the manufacturer. Model 86384-15 also includes probe and AC adapter.



Specifications

Operating temperature: 41 to 158°F (5 to 70°C) **Power:** four AA batteries (included) or 115 VAC adapter (included with 86384-15)
System requirements: Windows® XP, Vista, and 7

Parameter	Range	Resolution	Accuracy
CO ₂	0 to 5000 ppm	1 ppm	±3% of reading or ±50 ppm, whichever is greater
CO†	0 to 500 ppm	0.1 ppm	±3% of reading or ±3 ppm, whichever is greater
RH†	5 to 95%	0.1%	±2%
Temperature†	32 to 140°F (0 to 60°C)	0.1°F (0.1°C)	±1.0°F (±0.6°C)
% outside air†	0 to 100%	0.1%	—

†Applies to the advanced IAQ meter only.



Accessories

GY-93831-70 Optional RTD probe for secondary temperature

GY-09376-01 Replacement batteries, AA. Pack of 4

Indoor Air Quality Monitors

Monitor up to seven parameters

- Large, multiline LCD shows all installed sensor readings simultaneously
- Internal draw pump facilitates sampling

These handheld monitors measure temperature, humidity, and up to five additional plug-and-play smart sensors.

Program alarm set points for any installed sensor; an audible alarm alerts you when the set point has been reached. Data logging versions store readings on an SD card for later download. Incubator models include a temperature/RH probe and a separate gas sampling probe.

What's included: calibration adapter, three NiMH rechargeable batteries, and AC adapter/charger. Data logging models also include an SD card, USB cable, software, and SD card reader. Incubator models also include remote sample probes.



Specifications

CO range: 0 to 50 ppm **Humidity range:** 0 to 99.9%, noncondensing
NO₂ range: 0 to 5.0 ppm **Alarm:** 80 dB audible
O₂ range: 0 to 25% **Output:** USB
Temperature range: -23 to 131°F (-5 to 55°C) **Power:** three rechargeable NiMH batteries or AC adapter

Description	CO ₂ range	CO ₂ resolution	Catalog number	Price
Standard models				
IEQ Chek IAQ monitor, CO ₂ , temperature, RH	0 to 5000 ppm	1 ppm	GY-81973-41	
IEQ Chek IAQ monitor, CO ₂ , CO, temperature, RH			GY-81973-45	
IEQ Chek IAQ monitor, CO ₂ , CO, NO ₂ , temperature, RH			GY-81973-47	
Data logging models				
IEQ Chek IAQ monitor, CO ₂ , temperature, RH	0 to 5000 ppm	1 ppm	GY-81973-42	
IEQ Chek IAQ monitor, CO ₂ , CO, temperature, RH			GY-81973-46	
IEQ Chek IAQ monitor, CO ₂ , CO, NO ₂ , temperature, RH			GY-81973-48	
Incubator models with remote probes				
IEQ Chek IAQ monitor, CO ₂ , temperature, RH	0 to 20% vol	0.01%	GY-81973-56	
IEQ Chek IAQ monitor, CO ₂ , O ₂ , temperature, RH			GY-81973-57	



81973-47

UV Ozone Analyzer

Ensure accurate readings—comes precalibrated

- Autoranging
- LED indicators for on/off status,
- Multiple outputs for downloading to PC



This compact instrument automatically covers three ranges: 0 to 1, 0 to 10 and 0 to 900 ppm. Analyzer features a time-and-date stamp digital data stream for external readout and data logging. Internal data logger stores and transfers approximately four days of data.

Optional data logger 01117-04 can download into a PC or laptop via RS-232 serial cable. Send data continuously to the PC for continuous display and analysis. Automatically record time and max gas concentration scaling. Stores over 8000 readings. Graph statistics appear on screen as max, min, average, date and time.

Zoom capability provides more detailed viewing of any part of the graph. Graphs can be labeled and pasted into other applications.

Specifications

Accuracy: ±2% **Sampling time:** 10 seconds
Output: digital display, USB, 0 to 2.5 V, 4 to 20 mA **Power:** 120 VAC

Description	Catalog number	Price
UV Ozone sensor	GY-01117-02	

[GY-01117-04](#) Data logger; requires one 9 V battery (not included)
[GY-09376-04](#) Batteries, 9 V. Pack of 4

Portable Indoor Air Quality CO₂ Meter

Get readings right on your PC

- Check air quality anywhere high levels of carbon dioxide are generated
- Calculates dew point and wet bulb temperature
- Maintenance-free, nondispersive infrared (NDIR) CO₂ sensor
- User-programmable audible alarm
- Backlit LCD
- RS-232 interface for downloading to a PC
- Meter calculates statistical weighted averages of TWA (8-hour time-weighted average) and STEL (15-minute short-term exposure limit)



What's included: Software and cable, four AA batteries, and carrying case.

Specifications

Parameters	Carbon dioxide	Relative humidity	Temperature
Range	0 to 9999 ppm	0.0 to 99.9%	14 to 140°F (-10 to 60°C)
Resolution	1 ppm	0.1%	0.1°
Accuracy	±(5% of reading + 50 ppm)	±3% (10 to 90%), ±5% (<10% or >90%)	±0.9°F (0.6°C)

Alarms: Audible alarm with adjustable set point
Operating conditions: 32 to 122°F (0 to 50°C), <90% RH, noncondensing
Output: RS-232
Dimensions: 7⁷/₈" x 2³/₄" x 2¹/₄" (200 x 70 x 57 mm)
Power: Four AA batteries or AC adapter
Battery life: Approximately 24 hours

Description	Catalog number	Price
Portable indoor air quality CO ₂ meter	GY-81973-90	



FEP Sampling Bags

Won't incur damage from radiation and corrosive gases

- 5 mil thick bags resist temperatures up to 200°F (93°C)
- Choose from on/off valve (3/16" nickel-plated brass hose barb) or bags with asilicone septum in a polypropylene housing



01430-50

Volume	Dimensions (L x W)		On/off valve		Septum valve	
	in.	cm	Catalog number	Price	Catalog number	Price
0.5 L	6 x 6	15.2 x 15.2	GY-01430-10		GY-01430-50	
1.2 L	6 x 10	15.2 x 25.4	GY-01430-20		GY-01430-60	
4.7 L	12 x 12	30.5 x 30.5	GY-01430-30		GY-01430-70	
50.0 L	24 x 3	61.0 x 91.4	GY-01430-40		GY-01430-80	

Data Logging Carbon Dioxide Meters

Ensure highly accurate readings

- Intuitive, menu-driven display with shortcut buttons for easy operation
- Quickly store and datalog up to 2700 readings
- Low-maintenance, high-accuracy silicone-based sensor only requires calibration every two years



Backlit display shows readings both numerically and graphically—store data in memory or download to PC via RS-232. Includes a second probe port—order optional temperature/humidity probe to expand measurement capabilities (sold separately below).

Approvals: Meter: IP54; Probe: IP65 (NEMA 4), CE

Compliance: EN 61326-1:1997 for electromagnetic compatibility

What's included: CO₂ probe, rechargeable battery with 115 VAC adapter, software, and RS-232 cable.



Specifications

- Alarm:** adjustable audible/visible
- Output:** RS-232, 0 to 1 VDC
- Data storage:** 2700 points
- Power:** rechargeable NiMH battery with 115 VAC adapter

Range	Resolution	Accuracy	Cat. no.	Price
0 to 2000 ppm	1 ppm	±20 ppm CO ₂ + 2% of reading	GY-86437-00	
0 to 20%	0.01%	±0.02% CO ₂ + 2% of reading	GY-86437-02	

Accessories

[GY-37301-90](#) Optional temperature/humidity probe

O₂ and O₂/CO₂ Analyzers

Measure gas levels in just 10 seconds

- Internal memory function stores up to 10 tests
- Battery powered for up to 2400 measurements



Needle and probe are conveniently stored inside meter case when not in use.

Compact, handheld analyzer packs excellent functionality in a portable, easy-to-use instrument. Simply use probe assembly to penetrate package to be sampled. Powerful, internal pump draws 15-mL sample and displays gas concentration level in seconds on bright, 3-digit LED display. Memory function allows you to store up to 10 readings to be recorded later. Auto-calibration feature ensures quick calibration at the touch of a button. Analyzer will power off automatically after one minute of inactivity to save battery life. Display hold option enables you to lock the display for easy readability.

Analyzers are encased in a rugged, anodized aluminum housing with IP53 rating for impact and splash resistance. Integrated needle holder prevents accidental sticks when probe is not in use. Select from single O₂ or combined O₂/CO₂ model to suit your application.

What's included: sampling probe assembly, ten septa, ten replacement needles and filters, four AA batteries, and NIST-traceable calibration report supplied by the manufacturer.



Specifications

- Sensor type**
O₂: electrochemical
CO₂: infrared
(86490-02 only)
- Sampling pump:**
200 mbar max vacuum pump
- Sampling assembly:** probe with integral needle holder and sampling hose
- Power:** four AA batteries (included)

Range	Resolution	Accuracy	Cat. no.	Price
0 to 100% O ₂	0.1%	±0.1% (0 to 5%), ±2% (5 to 100%)	GY-86490-00	
0 to 100% O ₂ 0 to 100% CO ₂	0.1%	O ₂ : ±0.1% (0 to 5%), ±2% (5 to 100%); CO ₂ : ±0.2% (0 to 10%), ±2% (10% to 100%)	GY-86490-02	

Accessories

[GY-86490-15](#) Replacement septum. Pack of 1000

Air/Gas Analysis

Headspace O₂/CO₂ Analyzers Ensure product quality and safety

– Save time and money by preventing spoilage

Use these analyzers to measure residual oxygen in gas-flushed CAP/MAP food packages. Analyzers resist nitrogen and carbon dioxide—commonly used as background gases in packaging. Calibrate the units by sampling room air—normal air reading is 20.9% oxygen. Durable sensor in the analyzer has excellent zero and span stability after calibration.

Benchtop O₂/CO₂ Analyzer

Use these benchtop analyzers for continuous package testing in the laboratory or at the packing line. Analyzers feature a heavy-duty, maintenance-free sensor that compensates for slight temperature variations. Unlike other sensors, accuracy is not affected by flow rate, heat, or hydrocarbon gases.

Model 10360-30 is used to sample food packs, insert the needle tip of the probe into the food pack through a foam seal pad. Seal pad provides a tight seal and prevents air from leaking into the package through the puncture hole. The built-in pump draws in the precise amount of sample required for analysis, then turns off after a pre-set sampling time.

Pharmaceutical oxygen headspace analyzer (model 10360-60) is ideal for measuring headspace oxygen in vials. Low-volume sensor design requires only a small volume of sample—perfect for use with vials from 1 to 250 mL.

What's included: sampling probe assembly, two needles, two syringe filters, pack of 200 septa, 12 VDC rechargeable gel battery, and a 115/240 VAC charger/adaptor.

Specifications

Sensor type: heavy-duty electrochemical O₂ cell; Infrared CO₂ sensor (model 10360-70 only)

Sampling pump: miniature diaphragm type with adjustable timer from 1 to 10 seconds

Sampling assembly: probe/needle holder for luer needle with side hole; disposable filter, 1/16" OD inert tubing.

Power: 115/240 VAC or rechargeable gel battery (included)

Range	Resolution	Accuracy	Catalog number	Price
0.1 to 100% O ₂	0.1% O ₂	±0.1%	GY-10360-30	
0.01 to 100% O ₂	0.01% O ₂	±0.1%	GY-10360-60	
0.1 to 100% O ₂ , 0.1 to 100% CO ₂	0.1% O ₂ , 0.1% CO ₂	±0.1%	GY-10360-70	



Handheld analyzer 10360-20

Handheld Oxygen Analyzer

Use a sampling probe assembly with a needle to pierce through package. A built-in pump draws and delivers a sample to the sensor. Analyzer can also be used for applications where the oxygen level is very high (50 to 100%), without overloading the sensor. Other features include auto shut-off after 45 minutes of nonuse and low-battery indication.

What's included: one sampling probe assembly, two needles, two syringe filters, pack of 200 septas, four rechargeable NiCd batteries, and a charger with 115/240 VAC charger/adaptor.

Specifications

Sensor type: electrochemical cell

Power: four AA NiCd rechargeable batteries (included)

Sampling pump: internal with adjustable timer from 5 to 10 seconds

Sampling assembly: probe with male luer connection for side-port needle, PTFE tubing

Range	Resolution	Accuracy	Catalog number	Price
0.1 to 100% oxygen	0.1%	±1%	GY-10360-20	

Accessories for Both Analyzers

[GY-10360-24](#) Replacement sampling probe assembly

[GY-10360-26](#) Replacement needles, side-port hole. Pack of 3

[GY-10360-28](#) Replacement septa provide leak-tight seal upon needle penetration. Pack of 200

Pocket Ozone Detector

Accurate, easy-to-read digital display

- Versatile meter can be used for fixed or portable monitoring
- Ideal for leak checks in generators, valves and piping

The heated metal oxide semiconductor has a range of 0.02 to 10 ppm; digital readout is in 0.01 ppm increments. Use as a permanent detector indoors when the concentration average is below 0.1 ppm; use outdoors or at concentrations up to 10 ppm for short periods of time. Includes rechargeable batteries, charger, and carrying case. Order optional calibrator to verify that your ozone detector is conforming to the original calibration. Calibrator recalibrates detector at 0.1 ppm. It measures 2 1/4"W x 3 3/4"H x 1"D and includes a 9 V battery.



Range	Power	Catalog number	Price
0.02 to 10 ppm	Rechargeable batteries with a charger (included)	GY-86316-30	

[GY-86316-61](#) Ozone calibrator (0.1 ppm)

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

