

Model 01 Series

SINGLE GAS CLIP-ON PERSONAL MONITOR

Description

The GP-01, OX-01, HS-01, and CO-01 models are personal single gas monitors designed for personal protection from combustible hydrocarbons, Oxygen deficiency, Hydrogen Sulfide, or Carbon Monoxide. Individuals need personal protection in hazardous areas at all times without adding extra bulky equipment, and this series can provide that kind of protection at an affordable price. Each model is controlled by a microprocessor for reliability and advanced capabilities. The OX-01, HS-01, or CO-01 can be operated continuously for up to 3,000 hours on 2 AAA size alkaline batteries (GP-01 for 16 hours) and each weighs only 3.5 ounces. The GP-01, HS-01 and CO-01 have 2 preset alarms that are user adjustable. The HS-01 and CO-01 models also include alarm points for STEL and TWA. All models display peak values.

The OX-01 model has low, high, and over range alarms for Oxygen monitoring. Each version is equipped with visual, audible, and vibratory alarms as standard. The replacement sensors are inexpensive, easily field replaceable, have a life expectancy of 2 years, and are interchangeable with other MATHESON monitors such as the GX-2009, GX-2003, and GasWatch 2 models.

The GP-01, OX-01, HS-01, and CO-01 monitors are safe for use in hazardous locations, certified as intrinsically safe by CSA to U.S. and Canadian standards for Class I, Division 1, Groups A, B, C, and D.

Features

- 4 gases to choose from LEL, CO, H₂S, or O₂
- Operates 3,000 hrs. on alkaline batteries (16 hours for LEL version)
- Pocket size 1.4"(W) x 4.1"(H) x 0.8"(D)
- Light weight 3.5 ounces
- Audible / visual / vibratory alarms
- Automatic backlight during alarm
- Peak Hold, STEL & TWA
- Low battery alarm
- Impact and water resistant
- Intrinsically safe, CSA / US approved
- Special low temp H₂S version operates at -40° C
- 2 year warranty



Applications

- Hazardous material
- Mining
- Refineries/petrochemical
- Water/wastewater treatment
- Pharmaceuticals
- Utilities
- Chemical plants
- Fire services



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Model Name	OX-01	CO-01	HS-01	GP-01
Gas Detected	Oxygen (O ₂)	Carbon Monoxide (CO)	Hydrogen Sulfide (H ₂ S)	Combustible Gases (Methane as standard)
Detection Principle	Galvanic cell	Electrochemical		Catalytic combustion
Detection Range (Increments)	0 – 40% Vol (0.1% Vol)	0 – 500 ppm (1 ppm)	0 – 100.0 ppm (0.5 ppm)	0 – 100% LEL (1% LEL)
Alarm Set Points	Low alarm 19.5% Vol High alarm 23.5% Vol Over alarm 40.0% Vol	1st alarm 25 ppm 2nd alarm 50 ppm TWA alarm 25 ppm STEL alarm 200 ppm Over alarm 500 ppm	1st alarm 10.0 ppm 2nd alarm 30.0 ppm TWA alarm 10.0 ppm STEL alarm 15.0 ppm Over alarm 100.0 ppm	1st alarm 10% LEL 2nd alarm 50% LEL Over alarm 100% LEL
Alarm Types	Gas alarms: 1st and 2nd (user adjustable), OVER alarm, STEL and TWA Trouble alarms: Sensor connection, low battery circuit failure, and calibration range error			
Alarm Methods	Gas alarm: Flashing LED's, intermittent buzzer, flashing gas value, and vibratory Trouble alarms: Flashing LED's, intermittent buzzer, and display of error message STEL & TWA alarms: Flashing LED's, intermittent buzzer, flashing gas value, and vibratory			
Gas Sampling	Diffusion			
Response Time	T90 in 20 seconds (Alarms within 5 seconds when exposed to 12% O ₂)	T90 in 30 seconds		
Accuracy	+/- 0.5% Vol	+/- 5 ppm (up to 150 ppm)	+/- 1.5 ppm (up to 30 ppm)	+/- 5% of full scale
Power	Alkaline dry cell (2-AAA size)			Alkaline dry cell Ni-Cad battery pack
Continuous Operation	Alkaline dry cell: more than 3,000 hours (at 25°C, no backlight)			Alkaline: 16 hours Ni-Cad: 8 hours
Safety Rating	CSA classified, "C/US", as intrinsically safe. Class I, Division 1, Groups A, B, C, D			
Dimensions & Weight	1.4"W x 4.1"H x 0.8"D, (35 x 105 x 20mm); 3.5 ounces (100g)			
Display	4 digit LCD display + symbol on digital LCD, auto backlighting during alarm			
Operating Temp. & Humidity	-4°F to 122°F (-20°C to 50°C); Humidity below 90% RH (non-condensing)		-40°F to 122°F (-40°C to 50°C); Humidity below 90% RH (non-condensing)	
Standard Accessories	<ul style="list-style-type: none"> Rubber protective boots Alkaline batteries Belt clip or alligator clip Wrist strap 			
Special Functions	<ul style="list-style-type: none"> Manual backlight for LCD (automatically lit during alarm) Peak hold STEL & TWA 			
Warranty	Two years material and workmanship			

Ordering Information

Model No.	Description
CO-01-A	0-500 ppm CO, alligator clip
CO-01-B	0-500 ppm CO, belt clip
HS-01-A	0-100 ppm H ₂ S, alligator clip
HS-01-B	0-100 ppm H ₂ S, belt clip
GP-01-A	0-100% LEL, alligator clip
GP-01-B	0-100% LEL, belt clip
OX-01-A	0-40% Vol O ₂ , alligator clip
OX-01-B	0-40% Vol O ₂ , belt clip

Optional Accessories

Model No.	Description
49-1603RK	Battery pack, Ni-Cad (GP-01 version only)
49-2159RK	Charger for GP-01, for Ni-Cad battery pack, 115/220 VAC

01 Series Replacement Sensors

Model No.	Description
ES-1821	Sensor, Carbon Monoxide
ES-1827	Sensor, Hydrogen Sulfide
NC-6264A	Sensor, LEL
OS-BM2	Sensor, Oxygen

