

# GasWatch 2

## SINGLE GAS PERSONAL MONITOR

### Description

The GasWatch 2 is the first single-gas monitor that can be comfortably worn on the wrist like a watch. The GasWatch 2 is a convenient, inexpensive, hands-free method of gas monitoring for personal protection from Oxygen deficiency, Carbon Monoxide or Hydrogen Sulfide. The built-in vibratory, audible, and visual alarms immediately alert the user to a dangerous gas condition.

The GasWatch 2 is controlled by a microprocessor for reliability and advanced capabilities. Some of these advanced capabilities include distinctive audible and visual alarms for dangerous gas conditions and malfunctions, a large digital readout with a manual backlight that also automatically lights in an alarm condition, as well as the display of PEAK, TWA, and STEL readings. The replacement sensors are inexpensive, easily field replaceable, and have a life expectancy of about 2 years.

Equipped with a watch band, optional belt clip, hard hat clip, or alligator clip, the GasWatch 2 can be worn either on the wrist, belt, hard hat, or clipped to protective wear.

The GasWatch 2 will operate for over 3,000 hours on one battery (about 1 year normal use). And yes, the GasWatch 2 even tells the time!

### Features

- 3 gases to choose from CO, H<sub>2</sub>S, or O<sub>2</sub>
- Hands free gas monitoring
- Compact "watch type" design
- Fast, accurate response with digital LCD display
- Fits on your wrist, clothing, belt or hard hat
- Automatic backlight during alarm
- Manual backlight
- Sensor fail alarm
- PEAK hold function (min. and max. values for O<sub>2</sub>)
- TWA and STEL function
- Displays current time
- Visual, audible, and vibratory alarms standard
- Over 3,000 hours of operation from 1 battery
- Intrinsically safe, CSA, C/US classified
- 2 year warranty



### Applications

- Worker safety
- Refineries
- Petrochemical facilities
- Sewage treatment plants
- Fire services
- Chemical plants
- Tunnels
- Mines
- Hazardous waste sites



**MATHESON**

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Model Name	GW – 2X	GW – 2H	GW – 2C
<b>Gas Detected</b>	Oxygen (O <sub>2</sub> )	Hydrogen Sulfide (H <sub>2</sub> S)	Carbon Monoxide (CO)
<b>Detection Principle</b>	Galvanic cell	Electrochemical cell	Electrochemical cell
<b>Detection Range (Increments)</b>	0 – 40% Vol (0.1% Vol)	0 – 100 ppm (0.5 ppm)	0 – 500 ppm (1 ppm)
<b>Alarm Set Points</b>	Low 19.5% Vol High 23.5% Vol Over 40.0% Vol	1st 10.0 ppm 2nd 30.0 ppm TWA 10.0 ppm STEL 15.0 ppm Over 100.0 ppm	1st 25 ppm 2nd 50 ppm TWA 25 ppm STEL 200 ppm Over 500 ppm
<b>Alarm Types</b>	Gas alarms: 2 level alarm (user adjustable), STEL, TWA, and over alarm Trouble alarms: sensor connection, low battery, circuit error, and calibration range error		
<b>Alarm Methods</b>	Gas alarms: flashing light, intermittent buzzer and pulsing vibratory Trouble alarms: flashing light, intermittent buzzer and trouble type displayed		
<b>Gas Sampling</b>	Diffusion		
<b>Response Time</b>	T90 in 20 seconds (Alarms within 5 seconds when exposed to 12% O <sub>2</sub> )	T90 in 30 seconds	
<b>Accuracy</b>	+/- 0.5% Vol	+/- 1.5 ppm (up to 30 ppm)	+/- 5 ppm (up to 150 ppm)
<b>Power</b>	One coin type lithium battery (CR 2450)		
<b>Continuous Operation</b>	Approximately 3,000 hours with no alarms or backlighting (about 1 year of normal use)		
<b>Safety Rating</b>	CSA classified, "C/US", as intrinsically safe. Class I, Division 1, Groups A, B, C and D. Class I, Zone 0, Group IIC. Temperature code T4		
<b>Dimension Weight</b>	2.5" (W) x 1.7" (H) x 0.9" (D) / 63.5 mm(W) x 43 mm(H) x 23 mm(D) 2 ounces / 60 grams		
<b>Case</b>	High-impact plastic, dust and weather proof		
<b>Attachment Choices</b>	Watchband, alligator clip, belt clip, and hard hat clip		
<b>Operating Temperature and Humidity</b>	-10 to 40°C, (14 to 104° F) below 85% RH (non-condensing)		
<b>Special Functions</b>	<ul style="list-style-type: none"> <li>• LCD manual backlight (automatic lighting during alarm)</li> <li>• STEL, TWA function</li> <li>• Peak hold</li> <li>• Time indication</li> </ul>		
<b>Warranty</b>	Two years material and workmanship		

## Ordering Information

Model No.	Description	Model No.	Description
<b>GW-2X</b>	GasWatch 2, 0 - 40% Vol O <sub>2</sub> with watch band	<b>GW-2CA</b>	GasWatch 2, 0 - 500 ppm CO with alligator clip
<b>GW-2XA</b>	GasWatch 2, 0 - 40% Vol O <sub>2</sub> with alligator clip	<b>GW-2CB</b>	GasWatch 2, 0 - 500 ppm CO with belt clip
<b>GW-2XB</b>	GasWatch 2, 0 - 40% Vol O <sub>2</sub> with belt clip	<b>GW-2CH</b>	GasWatch 2, 0 - 500 ppm CO with hard hat clip
<b>GW-2XH</b>	GasWatch 2, 0 - 40% Vol O <sub>2</sub> with hard hat clip		
<b>GW-2H</b>	GasWatch 2, 0 - 100 ppm H <sub>2</sub> S with watch band	<b>GasWatch 2 Replacement Sensors</b>	
<b>GW-2HA</b>	GasWatch 2, 0 - 100 ppm H <sub>2</sub> S with alligator clip	<b>Model No.</b>	<b>Description</b>
<b>GW-2HB</b>	GasWatch 2, 0 - 100 ppm H <sub>2</sub> S with belt clip	<b>ES-1821</b>	Sensor, Carbon Monoxide
<b>GW-2HH</b>	GasWatch 2, 0 - 100 ppm H <sub>2</sub> S with hard hat clip	<b>ES-1827</b>	Sensor, Hydrogen Sulfide
<b>GW-2C</b>	GasWatch 2, 0 - 500 ppm CO with watch band	<b>OS-BM2</b>	Sensor, Oxygen

