

The WatchGas UNI is a compact and easy to use single gas monitor. Available with a very wide range of sensors that are suitable for many types of gases, such as a sensor for oxygen. In addition, the WatchGas UNI Sustainable also offers a wide choice of sensors for toxic gases. With its bright LED display and loud 95dB acoustic alarm, no alarm will pass you by, ensuring your safety with regard to gases.

The UNI offers a simple portable solution for a wide array of toxic gases and O<sub>2</sub> applications. With a large LCD screen, the UNI provides maximum readability in the field. Six bright red LEDs and a loud buzzer provide unmistakable alarm notification. It even has a built-in vibration alarm, for extra peace of mind in noisy work environments and when working with hearing protection.

The UNI is constructed using strong and durable materials, to provide protection in the harshest of environments. It also rests easy in your hand, with a grippy, rounded surface for optimal useability even when wearing multiple layers of protective clothing.

The UNI series can easily be bump tested and calibrated with the WatchGas Mono/Multi Dock.



## Key Features

- 34 models available for 28+ different gases (and increasing!)
- Between 1 and 5 year sensor life, depending on sensor
- Large LCD
- Weight: 125 g, 4.4 oz
- Event logger
- IP rating: IP68
- Password protection
- Six bright red flashing LEDs, loud acoustic alarm, vibrating alarm
- Low, High, TWA & STEL alarms.

## Application Examples

- (Petro)chemical plants and factories
- Tank storage parks
- Wastewater treatment facilities
- Mining industry
- Construction sites
- Food and beverage industry
- Fumigation
- Disinfection

## DETECTOR SPECIFICATIONS

Size	88 (W)x 62 (H) x 33 (D) mm (3.66 x 2.44 x 1.3 in)
Weight	125 g (4.4 oz)
Sensor technology	34 electrochemical sensor options
Temperature	-20°C to 50°C (-4 to 122°F)
Humidity	5% ~ 95% RH (Non-condensing)
Alarm type	High alarm, Low alarm, STEL alarm, TWA alarm, adjustable. Over range alarm, Battery low alarm, Bump test and calibration due notification
Alarm signal	Acoustic: 95dB @ 30cm Visual: 6 bright red LEDs Vibration alarm
Display	LCD Display
Calibration	2-point calibration, zero and span. Power-on zero calibration with user confirmation.
Event log	Up to 50 alarm events
Battery	Replaceable 3.6V AA Lithium battery for 3 years of operation
Measurement	Diffusion
Housing	Polycarbonate and rubber
Response time t90	15 sec (CO/H <sub>2</sub> S/O <sub>2</sub> ) Others gases vary (technical note 4: Sensor Technical Data Summaries)
Accuracy deviation	2-3%
IP-Rating	IP68
EMI/RFI	Compliant with EMC 2014/30/EU
Safety certifications	<b>UL:</b> Class I, Div 1, Group A, B, C, D Class II, Div 1, Group E, F, G Class III, Div 1 T4, -20° C ≤ T <sub>amb</sub> ≤ +50° C <b>ATEX:</b> II 1G Ex ia IIC T4 Ga <b>IECEX:</b> Ex ia IIC T4 Ga <b>CE:</b> Conformité Européenne
Sensor Life	CO/H <sub>2</sub> S: 5 years Other sensors: 1 to 2 years as per warranty
Warranty	2 years for UNI Sustainable with O <sub>2</sub> , H <sub>2</sub> S, CO, SO <sub>2</sub> , HCN, NO, NO <sub>2</sub> or PH <sub>3</sub> sensor 1 year for UNI Sustainable with other sensors

## SENSOR SPECIFICATIONS

Model	Detectable Gas Ranges		Resolution		Article Number
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
<b>CO</b> Carbon Monoxide	0 - 500 ppm	915 mg/m <sup>3</sup>	1 ppm	2 mg/m <sup>3</sup>	M001-0002-W00
	0 - 1000 ppm	1829 mg/m <sup>3</sup>	1 ppm	2 mg/m <sup>3</sup>	M001-0023-W00
	0 - 2000 ppm	3658 mg/m <sup>3</sup>	1 ppm	2 mg/m <sup>3</sup>	M001-0026-W00
<b>H<sub>2</sub>S</b> Hydrogen Sulfide	0 - 50 ppm	71 mg/m <sup>3</sup>	0.1 ppm	0.1 mg/m <sup>3</sup>	M001-0003-W00
	0 - 100 ppm	142 mg/m <sup>3</sup>	0.1 ppm	0.1 mg/m <sup>3</sup>	M001-0054-W00
	0 - 200 ppm	284 mg/m <sup>3</sup>	0.1 ppm	0.1 mg/m <sup>3</sup>	M001-0057-W00
	0 - 1000 ppm	1418 mg/m <sup>3</sup>	1 ppm	1 mg/m <sup>3</sup>	M001-0060-W00
<b>O<sub>2</sub></b> Oxygen	0 - 25 %vol		0.1 %vol		M001-0032-W00
	0 - 30 %vol		0.1 %vol		M001-0001-W00
<b>O<sub>2</sub> Lead-free</b> Oxygen	0 - 25 %vol		0.1 %vol		M001-0094-W00
	0 - 30 %vol		0.1 %vol		M001-0095-W00
<b>O<sub>2</sub> Inerting Alarms</b> Oxygen	0 - 25 %vol		0.1 %vol		M001-0093-W00
<b>SO<sub>2</sub></b> Sulfur Dioxide	0 - 20 ppm	53 mg/m <sup>3</sup>	0.1 ppm	0.3 mg/m <sup>3</sup>	M001-0007-W00
	0 - 100 ppm	266 mg/m <sup>3</sup>	0.1 ppm	0.3 mg/m <sup>3</sup>	M001-0091-W00
<b>Cl<sub>2</sub></b> Chlorine	0 - 50 ppm	147 mg/m <sup>3</sup>	0.1 ppm	0.3 mg/m <sup>3</sup>	M001-0004-W00
<b>NO</b> Nitric Oxide	0 - 250 ppm	312 mg/m <sup>3</sup>	1 ppm	1 mg/m <sup>3</sup>	M001-0015-W00
<b>NO<sub>2</sub></b> Nitrogen Dioxide	0 - 20 ppm	38 mg/m <sup>3</sup>	0.1 ppm	0.2 mg/m <sup>3</sup>	M001-0011-W00
<b>H<sub>2</sub></b> Hydrogen	0 - 1000 ppm	83 mg/m <sup>3</sup>	1 ppm	0.1 mg/m <sup>3</sup>	M001-0018-W00
	0 - 2000 ppm	166 mg/m <sup>3</sup>	1 ppm	0.1 mg/m <sup>3</sup>	M001-0019-W00
<b>PH<sub>3</sub></b> Phosphine	0 - 20 ppm	28 mg/m <sup>3</sup>	0.01 ppm	0.01 mg/m <sup>3</sup>	M001-0016-W00
<b>ETO</b> Ethylene Oxide	0 - 100 ppm	183 mg/m <sup>3</sup>	0.1 ppm	0.2 mg/m <sup>3</sup>	M001-0012-W00
	0 - 200 ppm	367 mg/m <sup>3</sup>	0.1 ppm	0.2 mg/m <sup>3</sup>	M001-0069-W00
<b>NH<sub>3</sub></b> Ammonia	0 - 100 ppm	71 mg/m <sup>3</sup>	1 ppm	1 mg/m <sup>3</sup>	M001-0006-W00
	0 - 500 ppm	353 mg/m <sup>3</sup>	1 ppm	1 mg/m <sup>3</sup>	M001-0090-W00
<b>ClO<sub>2</sub></b> Chlorine Dioxide	0 - 1 ppm	3 mg/m <sup>3</sup>	0.01 ppm	0.03 mg/m <sup>3</sup>	M001-0072-W00
<b>O<sub>3</sub></b> Ozone	0 - 5 ppm	10 mg/m <sup>3</sup>	0.01 ppm	0.02 mg/m <sup>3</sup>	M001-0009-W00
<b>HF</b> Hydrogen Fluoride	0 - 20 ppm	17 mg/m <sup>3</sup>	0.1 ppm	0.1 mg/m <sup>3</sup>	M001-0014-W00
<b>HCl</b> Hydrogen Chloride	0 - 15 ppm	23 mg/m <sup>3</sup>	0.1 ppm	0.2 mg/m <sup>3</sup>	M001-0008-W00
<b>HCN</b> Hydrogen Cyanide	0 - 100 ppm	112 mg/m <sup>3</sup>	0.1 ppm	1 mg/m <sup>3</sup>	M001-0005-W00
<b>CH<sub>3</sub>SH</b> Methyl Mercaptan	0 - 10 ppm	20 mg/m <sup>3</sup>	0.1 ppm	0.2 mg/m <sup>3</sup>	M001-0077-W00
<b>THT</b> Tetrahydrothiophene	0 - 40 ppm	144 mg/m <sup>3</sup>	0.1 ppm	0.4 mg/m <sup>3</sup>	M001-0085-W00
<b>C<sub>2</sub>H<sub>4</sub>O</b> Acetaldehyde	0 - 20 ppm	37 mg/m <sup>3</sup>	0.1 ppm	0.2 mg/m <sup>3</sup>	M001-0080-W00
<b>AsH<sub>3</sub></b> Arsine	0 - 1ppm	3.24 mg/m <sup>3</sup>	0.01 ppm	0.03 mg/m <sup>3</sup>	M001-0092-W00
<b>COCl<sub>2</sub></b> Phosgene	0 - 1ppm	4.11 mg/m <sup>3</sup>	0.01 ppm	0.04 mg/m <sup>3</sup>	M001-0020-W00

## CROSS SENSITIVITY

Model	Cross Sensitivity gas	Measurement		Resolution		CF	Article Number
		0 - 100 ppm	0 - 200 ppm	0.1 ppm	0.13 mg/m <sup>3</sup>		
ETO Ethylene Oxide	<b>CH<sub>3</sub>OH</b> Methanol	0 - 100 ppm	133.27 mg/m <sup>3</sup>	0.1 ppm	0.13 mg/m <sup>3</sup>	0.9	M001-0012-W00 M001-0069-W00
	<b>C<sub>2</sub>H<sub>6</sub>O</b> Ethanol	0 - 100 ppm	191.63 mg/m <sup>3</sup>	0.1 ppm	0.19 mg/m <sup>3</sup>	1.5	M001-0012-W00 M001-0069-W00
	<b>C<sub>2</sub>H<sub>3</sub>Cl</b> Vinyl Chloride	0 - 100 ppm	259.96 mg/m <sup>3</sup>	0.1 ppm	0.26 mg/m <sup>3</sup>	1.4	M001-0012-W00 M001-0069-W00
	<b>CH<sub>2</sub>O</b> Formaldehyde	0 - 100 ppm	124.92 mg/m <sup>3</sup>	0.1 ppm	0.12 mg/m <sup>3</sup>	0.4	M001-0012-W00 M001-0069-W00
	<b>CH<sub>2</sub>O<sub>2</sub></b> Formic Acid	0 - 100 ppm	191.46 mg/m <sup>3</sup>	0.1 ppm	0.19 mg/m <sup>3</sup>	1.4	M001-0012-W00 M001-0069-W00
AsH <sub>3</sub> Arsine	<b>SiH<sub>4</sub></b> Silane	0 - 1 ppm	1.34 mg/m <sup>3</sup>	0.01 ppm	0.01 mg/m <sup>3</sup>	1.8	M001-0092-W00
	<b>PH<sub>3</sub></b> Phosphine	0 - 1 ppm	1.41 mg/m <sup>3</sup>	0.01 ppm	0.01 mg/m <sup>3</sup>	1.2	M001-0092-W00

## ACCESSORIES



**UNI Series  
Multi Docking Station**



**UNI Series  
Mono Docking Station**



**Calibration Gases**



**Fixed Flow Regulator**  
0.5L per minute  
Stainless Steel or 1L per  
minute Stainless Steel  
regulators



**Last-O-More Hose**



*Also check out our UNI  
Disposable range on the  
WatchGas website!*

## THE UNI SUSTAINABLE COMES COMPLETE WITH THE FOLLOWING ITEMS:

- Calibration adapter
- Manual



**For more information**

[www.watchgas.eu](http://www.watchgas.eu)

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