

UNI SUSTAINABLE SINGLE GAS DETECTOR

Available for many gases



APPLICATION EXAMPLES

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



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 O2 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 builtin 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.

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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 ₂ S/O ₂) 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	UL: Class I, Div 1, Group A, B, C, D Class II, Div 1, Group E, F, G Class III, Div 1 T4, -20° C ≤ Tamb ≤ +50° C ATEX: II 1G Ex ia IIC T4 Ga IECEX: Ex ia IIC T4 Ga CE: Conformité Européenne
Sensor Life	CO/H ₂ S: 5 years Other sensors: 1 to 2 years as per warranty
Warranty	2 years for UNI Sustainable with O ₂ , H ₂ S, CO, SO ₂ , HCN, NO, NO ₂ and PH ₃ 1 year for UNI Sustainable with other sensors

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SENSOR SPECIFICATIONS

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

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CROSS SENSITIVITY

Model	Cross Sensitivity gas	Measurement		Resolution		CF	Article Number
		0 - 100 ppm	133.27 mg/m3	0.1ppm	0.13 mg/m3		
ETO Ethylene Oxide	CH ₃ OH Methanol	0 - 200 ppm	266.54 mg/m3	0.1ppm	0.13 mg/m3	0.9	M001-0012-W00 M001-0069-W00
	C ₂ H ₆ O Ethanol	0 - 200 ppm	383.26 mg/m3	0.1ppm	0.19 mg/m3	1.5	M001-0012-W00 M001-0069-W00
	C ₂ H ₃ Cl Vinyl Chloride	0 - 200 ppm	519.93 mg/m3	0.1ppm	0.26 mg/m3	1.4	M001-0012-W00 M001-0069-W00
	CH ₂ O Formaldehyde	0 - 200 ppm	249.83 mg/m3	0.1ppm	0.12 mg/m3	0.4	M001-0012-W00 M001-0069-W00
	CH ₂ O ₂ Formic Acid	0 - 200 ppm	382.93 mg/m3	0.1ppm	0.19 mg/m3	1.4	M001-0012-W00 M001-0069-W00
	C ₃ H ₆ O Propylene oxide	0 - 200 ppm	483.34 mg/m3	0.1ppm	0.24 mg/m3	1.3	M001-0012-W00 M001-0069-W00
AsH ₃ Arsina	SiH ₄ Silane	0 - 1ppm	1.34 mg/m3	0.1ppm	0.01 mg/m3	1.8	M001-0092-W00
	PH ₃ Phosphine	0 - 1ppm	1.41 mg/m3	0.1ppm	0.01 mg/m3	1.2	M001-0092-W00

ACCESSORIES



Calibration Gases



UNI Mono Docking station



UNI Multi Docking station



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.com

info@watchgas.com

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Therefore, the specifications and features mentioned in this datasheet are subject to change without prior notice.

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