



UNI SUSTAINABLE

SINGLE GAS DETECTOR

Applications

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

Features and Benefits



Wide Range of Sensor Options

The WatchGas UNI Sustainable supports a wide range of gas detection applications with both standard and specialty sensor options. In addition to common gases such as CO, H₂S, NO₂, NH₃, and SO₂, the UNI Sustainable can be configured to detect Cl₂, ClO₂, HCl, HF, PH₃, O₃, methyl mercaptan, and ETO. Long life lead-free oxygen sensors and inverted alarm oxygen monitors are also available for specialized inert gas applications, providing the flexibility to meet a broad range of monitoring requirements.



Built Tough

The WatchGas UNI Sustainable is designed for comfort and everyday durability. A rugged, drop-resistant housing and solid stainless-steel alligator clip provide reliable protection and a secure attachment point in demanding work environments, helping to maximise the monitor's life.



Clear Visibility

The large LCD provides maximum readability in the field and clearly displays the remaining operating time, allowing users to quickly check instrument status at a glance.



50 Event Datalogging

Stores up to 50 records, providing a clear history of instrument activity for improved incident review, compliance tracking, and safety reporting.



Alarm

The WatchGas UNI Sustainable features a powerful alarm system combining a 95 dB audible alarm at 30cm, six bright red LEDs, and a built-in vibrator, ensuring hazardous conditions are quickly recognized in any work environment.



Long-Life Battery

The WatchGas UNI Sustainable is powered by a replaceable AA-size lithium battery, providing up to three years of continuous operation under normal use. The larger battery capacity helps extend service life, reduce maintenance requirements, and minimize downtime associated with battery replacement.

UNI SUSTAINABLE SPECIFICATIONS

Size	88 (W)x 62 (H) x 33 (D) mm (3.46 x 2.44 x 1.3 in)
Weight	125 g (4.4 oz)
Sensor technology	Electrochemical
Temperature	-20°C to 50°C (-4 to 122°F) with up to 2 hr at 60°C for H2S models
Humidity	5% ~ 95% RH (Non-condensing)
Alarm type	High alarm, Low alarm, STEL alarm, TWA alarm, adjustable. Over range alarm, Battery low alarm.
Alarm signal	Acoustic: 95 dB @ 30 cm Visual: Flashing bright red LEDs Built-in vibrator
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 AA-size Lithium battery, up to 3 years operation without frequent alarms
Measurement	Diffusion
Response time t90	15 sec (CO/H ₂ S/O ₂) Others gases vary
IP-Rating	IP-67
EMI/RFI	Compliant with EMC 2014/30/EU
Safety Certifications	 Class I, Div 1, Group ABCD Class II, Div 1, Group EFG Class III, Div 1 T4, -20° C ≤ Tamb ≤ +50° C  Ex ia IIC T4 Ga  II 1G Ex ia IIC T4 Ga  Conformité Européenne
Sensor Life	CO/H ₂ S expected operating life 5 years, others 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

SENSOR SPECIFICATIONS

Sensor type	Gas measuring range	Resolution	P/N
CO Carbon Monoxide	1-1000 ppm	1 ppm	M001-0023-W00
CO Low H ₂ Sensitivity Carbon Monoxide	1-1000 ppm	1 ppm	M001-0097-W00
H ₂ S Hydrogen Sulfide	0.1-100 ppm	0.1 ppm	M001-0054-W00
H ₂ S Hydrogen Sulfide	0.1-200 ppm	0.1 ppm	M001-0057-W00
H ₂ S Hydrogen Sulfide	1-1000 ppm	1 ppm	M001-0060-W00
O ₂ Oxygen	0.1-25 %vol	0.1 %vol	M001-0032-W00
O ₂ Lead-Free Oxygen	0.1-30 %vol	0.1 %vol	M001-0095-W00
O ₂ Inert Alarms Oxygen	0.1-25 %vol	0.1 %vol	M001-0093-W00
NH ₃ Ammonia	1-100 ppm	1 ppm	M001-0006-W00
NH ₃ Ammonia	1-500 ppm	1 ppm	M001-0090-W00
Cl ₂ Chlorine	0.1-50 ppm	0.1 ppm	M001-0004-W00
ClO ₂ Chlorine Dioxide	0.01-1 ppm	0.01 ppm	M001-0072-W00
H ₂ Hydrogen	1-2000 ppm	1 ppm	M001-0019-W00
HCl Hydrogen Chloride	0.1-15 ppm	0.1 ppm	M001-0008-W00
HF Hydrogen Fluoride	0.1-20 ppm	0.1 ppm	M001-0014-W00
HCN Hydrogen Cyanide	0.1-100 ppm	0.1 ppm	M001-0005-W00
NO Nitric Oxide	1-250 ppm	1 ppm	M001-0015-W00
NO ₂ Nitrogen Dioxide	0.1-20 ppm	0.1 ppm	M001-0011-W00
O ₃ Ozone	0.01-5 ppm	0.01 ppm	M001-0009-W00
PH ₃ Phosphine	0.01-20 ppm	0.01 ppm	M001-0016-W00
SO ₂ Sulfur Dioxide	0.1-20 ppm	0.1 ppm	M001-0007-W00
SO ₂ Sulfur Dioxide	0.1-100 ppm	0.1 ppm	M001-0091-W00
ETO Ethylene Oxide	0.1-200 ppm	0.1 ppm	M001-0069-W00
CH ₃ SH Methyl Mercaptan	0.1-10 ppm	0.1 ppm	M001-0077-W00
THT Tetrahydrothiophene	0.1-40 ppm	0.1 ppm	M001-0085-W00
AsH ₃ Arsine	0.01-1 ppm	0.01 ppm	M001-0092-W00
SiH ₄ Silane	0.01-1 ppm	0.01 ppm	M001-0092-W00

Accessories



Calibration Gases



UNI Mono Docking Station



UNI Multi Docking Station



Also check out our UNI Sustainable range on the WatchGas website!

The UNI Sustainable comes complete with the following Items:

- Calibration adapter
- Manual

For more information

www.watchgas.com / www.watchgasusa.com
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WatchGas is dedicated to continuously improving its products. Therefore, the specifications and features mentioned in this datasheet are subject to change without prior notice.

CROSS-SENSITIVITY

Model	Gas	Measurement Range / Resolution	CF
ETO	Methanol	0-200 ppm / 0.1 ppm	0.9
ETO	Ethanol	0-200 ppm / 0.1 ppm	1.5
ETO	Vinyl Chloride	0-200 ppm / 0.1 ppm	1.4
ETO	Formaldehyde	0-200 ppm / 0.1 ppm	0.4
ETO	Formic Acid	0-200 ppm / 0.1 ppm	1.4
ETO	Propylene Oxide	0-200 ppm / 0.1 ppm	1.3
AsH ₃	Silane	0-1 ppm / 0.1 ppm	1.8
AsH ₃	Phosphine	0-1 ppm / 0.1 ppm	1.2

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