

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 special 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 beeper 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

- 26 models available for 18 different gases (and growing!)
- Between 2 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

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 | 26 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 |
| 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 AA Lithium battery for 3 years of operation |
| Measurement | Diffusion |
| Housing | Polycarbonate and rubber |
| Response time T ⁹⁰ | 15 sec (CO/H ₂ S/O ₂) Others gases vary (technical note 4: Sensor Technical Data Summaries) |
| IP-Rating | IP68 |
| EMI/RFI | Compliant with EMC 2014/30/EU |
| Safety certifications | UL/cUL: 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 1 G 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 , CO, SO ₂ , HCN, NO, NO ₂ or PH ₃ sensor 1 year for UNI Sustainable with other sensors |

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 |
| H₂S 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 |
| O₂ Oxygen | 0 - 25 %vol | | 0.1 %vol | | M001-0032-W00 |
| | 0 - 30 %vol | | 0.1 %vol | | M001-0001-W00 |
| SO₂ Sulfur Dioxide | 0 - 20 ppm | 53 mg/m ³ | 0.1 ppm | 0.3 mg/m ³ | M001-0007-W00 |
| | 0 - 100 ppm | 266 mg/m ³ | 0.1 ppm | 0.3 mg/m ³ | M001-0091-W00 |
| Cl₂ 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 |
| NO₂ Nitrogen Dioxide | 0 - 20 ppm | 38 mg/m ³ | 0.1 ppm | 0.2 mg/m ³ | M001-0011-W00 |
| H₂ 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 |
| PH₃ 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 |
| NH₃ 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 |
| ClO₂ Chlorine Dioxide | 0 - 1 ppm | 3 mg/m ³ | 0.01 ppm | 0.03 mg/m ³ | M001-0072-W00 |
| O₃ 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 | 1 ppm | 1 mg/m ³ | M001-0005-W00 |
| CH₃SH 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 | 1 ppm | 0.4 mg/m ³ | M001-0085-W00 |
| C₂H₄O Acetaldehyde | 0 - 20 ppm | 37 mg/m ³ | 0.1 ppm | 0.2 mg/m ³ | M001-0080-W00 |
| AsH₃ Arsine | 0.01 - 1 ppm | 0.03-3.24 mg/m ³ | 0.01 ppm | 0.03 mg/m ³ | 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!*

NOTES
