

Single Gas Detectors



The UNI MP100 offers a simple, personal protection for a wide array of toxic gas and oxygen (O₂) measurement applications. In addition to common sensors such as carbon monoxide (CO), hydrogen sulfide (H₂S), nitrogen dioxide (NO₂), ammonia (NH₃) and sulfur dioxide (SO₂), we offer less-common sensors including chlorine (Cl₂), chlorine dioxide (ClO₂), hydrogen chloride (HCl), hydrogen fluoride (HF), phosphine (PH₃), ozone (O₃), methyl mercaptan and ethylene oxide (ETO). Special oxygen monitors are available with long-life lead-free sensors or with inverted alarms for inert gas applications. The monitors have a large LCD providing maximum readability in the field and are made with six bright red LEDs allowing for quick alarm notification. Constructed of strong and durable material, the UNI is designed to be comfortable, yet drop-resistant. The UNI series can easily be bump tested and calibrated with the mPower CaliCase Station or Docking Box.

Features, Functions and Benefits

- 50% larger (AA versus 2/3 AA) Lithium Battery
- Widest choice of sensors on the market
- Large display
- 50 Event datalogging
- Low cost of ownership
- Solid stainless-steel alligator clip
- Durable housing
- Fast bump, calibration or download using single Docking Box or CaliCase 4-Bay Docking Station
- UL Classification Class I, II, III, Groups ABCDEFG





UNI Docking Box



CaliCase Docking Station

Detector Specifications

Size	3.46 x 2.44 x 1.3 in (88 x 62 x 33 mm)
Weight	4.4 oz (125 g)
Sensors	Electrochemical
Response time (t90)	15 seconds (CO/H ₂ S/O ₂) Others vary, see individual sensor specifications in TA Note 4
Battery	Replaceable AA size Lithium battery, up to 3 years operation without frequent alarms
Temperature	-4°F to 122°F (-20°C to 50°C)
Humidity	5 to 95% relative humidity (non-condensing)
Alarm Type	<ul style="list-style-type: none"> • High, Low, STEL & TWA alarms adjustable • Over-range alarm • Low battery alarm
Alarm Signal	<ul style="list-style-type: none"> • 95 dB @ 30 cm • Bright red LEDs • Built in vibrator
Calibration	2-point calibration, zero and span, power on zero (user-selectable)
Docking Stations for Cal & Bump	UNI Single Docking Box CaliCase 4-Bay Docking Station
Event Log	Up to 50 alarm events
IP Rating	IP-67
EMI/RFI	EMC directive: 2014/30/EU
Safety Certifications	<p> Class I, Div 1, Group ABCD Class II, Div 1, Group EFG Class III, Div 1 T4, -20°C ≤ T_{amb} ≤ +50°C</p> <p>IECEx Ex ia IIC T4 Ga</p> <p>ATEX  II 1G Ex ia IIC T4 Ga</p>
Sensor Life	CO & H ₂ S expected operating life 5 years, others 1 to 2 years as per warranty
Warranty	2 years on O ₂ , CO, H ₂ S, SO ₂ , HCN, NO, NO ₂ , and PH ₃ units including sensor; 1 year on others

Sensor Specifications

Gas	Range/Resolution (ppm)	Detector P/N
CO (Carbon Monoxide)	1000/1	M001-0023-000
H₂S (Hydrogen Sulfide)	100.0/0.1	M001-0054-000
	1000/1	M001-0060-000
O₂ (Oxygen)	25/0.1%	M001-0032-000
O₂ (Oxygen) Lead-Free	30/0.1%	M001-0095-000
O₂ Inert Alarms	25/0.1%	M001-0093-000
	100/1	M001-0006-000
NH₃ (Ammonia)	500/1	M001-0090-000
	50.0/0.1	M001-0004-000
Cl₂ (Chlorine)	50.0/0.1	M001-0004-000
ClO₂ (Chlorine Dioxide)	1.00/0.01	M001-0072-000
H₂ (Hydrogen)	2000/1	M001-0019-000
HCl (Hydrogen Chloride)	15.0/0.1	M001-0008-000
HF (Hydrogen Fluoride)	20.0/0.1	M001-0014-000
HCN (Hydrogen Cyanide)	100/0.1	M001-0005-000
NO (Nitric Oxide)	250/1	M001-0015-000
NO₂ (Nitrogen Dioxide)	20.0/0.1	M001-0011-000
O₃ (Ozone)	5.00/0.01	M001-0009-000
PH₃ (Phosphine)	20.00/0.01	M001-0016-000
	20.0/0.1	M001-0007-000
SO₂ (Sulfur Dioxide)	100.0/0.1	M001-0091-000
ETO (Ethylene Oxide)	200.0/0.1	M001-0069-000
CH₃SH (Methyl Mercaptan)	10.0/0.1	M001-0077-000
THT (Tetrahydrothiophene)	40.0/0.1	M001-0085-000