

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 fluoride (HF), phosphine (PH₃), ozone (O₃), methyl mercaptan and ethylene oxide. 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 System.





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
- Smart sensors
- Solid stainless-steel alligator clip
- Durable housing
- Fast calibration & download using docking station
- UL Classification Class I, II, III, Groups ABCDEFG



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)
Temperature	-4°F to 122°F (-20°C to 50°C)
Humidity	5 to 95% relative humidity (non-condensing)
Alarm Type	High, Low, STEL & TWA alarms adjustable. Over range alarm, Low battery alarm.
Alarm signal	90 dB @ 30 cm Bright red LEDs Built in vibrator
Calibration	2-point calibration, zero and span, power on zero (user-selectable).
Event log	Up to 50 alarm events
Response time (t90)	20 seconds (CO/H ₂ S/O ₂), Others vary, see individual sensor specification sheet
IP rating	IP-67
EMI/RFI	Compliant with EMC 2004/108/EC
Safety Certifications	 Class I, Div 1, Group ABCD Class II, Div 1, Group EFG Class III, Div 1 T4, -20°C ≤ T _{amb} ≤ +50°C  Ex ia IIC T4  II 1G Ex ia IIC T4 (pending)  European Conformity
Battery	Replaceable AA size Lithium battery, 3 years typical operation
Sensor life	CO & H ₂ S expected operating life 5 years or longer, others 2 years or longer
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)	500/1	M001-0002-000
	1000/1	M001-0023-000
	2000/1	M001-0026-000
H ₂ S (Hydrogen Sulfide)	50.0/0.1	M001-0003-000
	100.0/0.1	M001-0054-000
	200.0/0.1	M001-0057-000
	1000/1	M001-0060-000
O ₂ (Oxygen)	25.0/0.1%	M001-0032-000
	30/0.1%	M001-0001-000
H ₂ (Hydrogen)	1000/1	M001-0018-000
	2000/1	M001-0019-000
NH ₃ (Ammonia)	100/1	M001-0006-000
Cl ₂ (Chlorine)	50.0/0.1	M001-0004-000
ClO ₂ (Chlorine Dioxide)	1.00/0.01	M001-0072-000
HCN (Hydrogen Cyanide)	100/1	M001-0005-000
NO (Nitric Oxide)	250/1	M001-0015-000
NO ₂ (Nitrogen Dioxide)	20.0/0.1	M001-0011-000
PH ₃ (Phosphine)	20.00/0.01	M001-0016-000
SO ₂ (Sulfur Dioxide)	20.0/0.1	M001-0007-000
ETO (Ethylene Oxide)	100.0/0.1	M001-0012-000
	200.0/0.1	M001-0069-000
O ₃ (Ozone)	1.00/0.02	M001-0009-000
HF (Hydrogen Fluoride)	10.0/0.1	M001-0014-000
HCl (Hydrogen Chloride)	15.0/0.1	M001-0008-000
CH ₃ SH (Methyl Mercaptan)	10.0/0.1	M001-0077-000
THT (Tetrahydrothiophene)	50.0/0.1	M001-0085-000
C ₂ H ₄ O (Acetaldehyde)	20.0/0.1	M001-0080-000

* Due to ongoing research and product improvement, specifications are subject to change without notice *