

UNI MP100

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), phosgene (COCl₂), hydrogen chloride (HCl), hydrogen fluoride (HF), arsine (AsH₃), phosphine (PH₃), ozone (O₃), methyl mercaptan and ethylene oxide.

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.

KEY FEATURES

- 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 bump, calibration or download using single Docking
- Box or CaliCase 4-Bay Docking Station
- UL Classification Class I, II, III, Groups ABCDEFG

* Sensors are replaceable with same type and carry calibration information, but are not interchangeable with other chemical type sensors



- ▲ Docking Box
- ◀ CaliCase Docking Station

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RANGE OF GASES DETECTED

Gas Range/	Resolution (ppm)	Detector P/N
CO (Carbon Monoxide)	1000/1	M001-0023-000
H ₂ S (Hydrogen Sulfide)	100.0/0.1	M001-0054-000
	1000/1	M001-0060-000
O ₂ (Oxygen)	25/0.1%	M001-0032-000
O ₂ (Oxygen) Lead-Free	30/0.1%	M001-0095-000
O ₂ Inerting Alarms	25/0.1%	M001-0093-000
NH ₃ (Ammonia)	100/1	M001-0006-000
	500/1	M001-0090-000
AsH ₃ (Arsine)	1.00/0.01	M001-0092-000
Cl ₂ (Chlorine)	50.0/0.1	M001-0004-000
ClO ₂ (Chlorine Dioxide)	1.00/0.01	M001-0072-000
COCl ₂ (Phosgene)	1.00/0.01	M001-0020-000
H ₂ (Hydrogen)	2000/1	M001-0019-000
HCl (Hydrogen Chloride)	15.0/0.1	M001-0008-000

Gas Range/	Resolution (ppm)	Detector P/N
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
NO ₂ (Nitrogen Dioxide)	20.0/0.1	M001-0011-000
O ₃ (Ozone)	5.00/0.01	M001-0009-000
PH ₃ (Phosphine)	20.00/0.01	M001-0016-000
SO ₂ (Sulfur Dioxide)	20.0/0.1	M001-0007-000
	100.0/0.1	M001-0091-000
ETO (Ethylene Oxide)	200.0/0.1	M001-0069-000
CH ₃ SH (Methyl Mercaptan)	10.0/0.1	M001-0077-000
THT (Tetrahydrothiophene)	40.0/0.1	M001-0085-000

SPECIFICATIONS Specifications subject to change without notice

Size	88 x 62 x 33 mm
Weight	125 g
Sensors	Electrochemical
Response time (t ₉₀)	15 seconds (CO/H ₂ S/O ₂) Others vary, see individual sensor specifications in TA Note 4
Battery	Replaceable AA size Lithium battery, 3 years typical operation
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	Class I, Div 1, Group ABCD Class II, Div 1, Group EFG Class III, Div 1 T4, -20°C ≤ Tamb ≤ +50°C IECEx Ex ia IIC T4 Ga ATEX II 1G Ex ia IIC T4 Ga
Sensor Life	CO & H ₂ S expected operating life 5 years or longer, 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



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