

# Single Gas Detectors



The UNI MP100 offers a simple, personal protection for a wide array of toxic gas and oxygen (O<sub>2</sub>) measurement applications. In addition to common sensors such as carbon monoxide (CO), hydrogen sulfide (H<sub>2</sub>S), nitrogen dioxide (NO<sub>2</sub>), ammonia (NH<sub>3</sub>) and sulfur dioxide (SO<sub>2</sub>), we offer less-common sensors including chlorine (Cl<sub>2</sub>), chlorine dioxide (ClO<sub>2</sub>), hydrogen chloride (HCl), phosphine (PH<sub>3</sub>), ozone (O<sub>3</sub>), 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






UNI Docking Box



CaliCase Docking Station

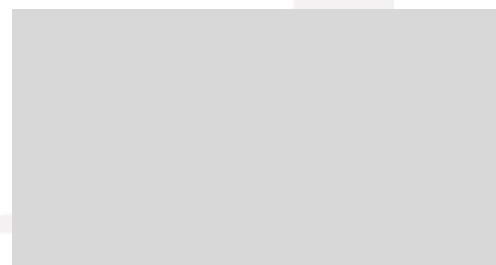
## Detector Specifications

<b>Size</b>	3.46 x 2.44 x 1.3 in (88 x 62 x 33 mm)
<b>Weight</b>	4.4 oz (125 g)
<b>Sensors</b>	Electrochemical
<b>Response time (t90)</b>	15 seconds (CO/H <sub>2</sub> S/O <sub>2</sub> ) Others vary, see individual sensor specification sheet
<b>Battery</b>	Replaceable AA size Lithium battery, 3 years typical operation
<b>Temperature</b>	-4°F to 122°F (-20°C to 50°C)
<b>Humidity</b>	5 to 95% relative humidity (non-condensing)
<b>Alarm Type</b>	<ul style="list-style-type: none"> <li>• High, Low, STEL &amp; TWA alarms adjustable</li> <li>• Over range alarm</li> <li>• Low battery alarm</li> </ul>
<b>Alarm Signal</b>	<ul style="list-style-type: none"> <li>• 95 dB @ 30 cm</li> <li>• Bright red LEDs</li> <li>• Built in vibrator</li> </ul>
<b>Calibration</b>	2-point calibration, zero and span, power on zero (user-selectable)
<b>Event Log</b>	Up to 50 alarm events
<b>IP Rating</b>	IP-67
<b>EMI/RFI</b>	EMC directive: 2014/30/EU
<b>Safety Certifications</b>	<p>  Class I, Div 1, Group ABCD            Class II, Div 1, Group EFG            Class III, Div 1            T4, -20°C ≤ T<sub>amb</sub> ≤ +50°C         </p> <p><b>IECEX</b> Ex ia IIC T4 Ga</p> <p><b>ATEX</b>   II 1G            Ex ia IIC T4 Ga</p>
<b>Sensor Life</b>	CO & H <sub>2</sub> S expected operating life 5 years or longer, others 1 to 2 years as per warranty
<b>Warranty</b>	1 years on O <sub>2</sub> , CO, H <sub>2</sub> S, SO <sub>2</sub> , HCN, NO, NO <sub>2</sub> , and PH <sub>3</sub> 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 <sub>2</sub> 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 <sub>2</sub> (Oxygen)	25.0/0.1%	M001-0032-000
	30/0.1%	M001-0001-000
NH <sub>3</sub> (Ammonia)	100/1	M001-0006-000
	500/1	M001-0090-000
Cl <sub>2</sub> (Chlorine)	50.0/0.1	M001-0004-000
ClO <sub>2</sub> (Chlorine Dioxide)	1.00/0.01	M001-0072-000
H <sub>2</sub> (Hydrogen)	1000/1	M001-0018-000
	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)	100/1	M001-0005-000
NO (Nitric Oxide)	250/1	M001-0015-000
NO <sub>2</sub> (Nitrogen Dioxide)	20.0/0.1	M001-0011-000
O <sub>3</sub> (Ozone)	1.00/0.01	M001-0009-000
PH <sub>3</sub> (Phosphine)	20.00/0.01	M001-0016-000
SO <sub>2</sub> (Sulfur Dioxide)	20.0/0.1	M001-0007-000
	100.0/0.1	M001-0091-000
C <sub>2</sub> H <sub>4</sub> O (Acetaldehyde)	20.0/0.1	M001-0080-000
ETO (Ethylene Oxide)	100.0/0.1	M001-0012-000
	200.0/0.1	M001-0069-000
CH <sub>3</sub> SH (Methyl Mercaptan)	10.0/0.1	M001-0077-000
THT (Tetrahydrothiophene)	50.0/0.1	M001-0085-000

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