

# 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), hydrogen fluoride (HF), phosphine (PH<sub>3</sub>), ozone (O<sub>3</sub>), 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**

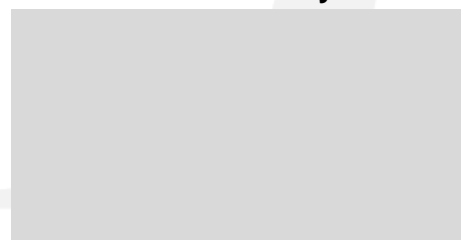
## Detector Specifications

<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 specifications in TA Note 4
<b>Battery</b>	Replaceable AA size Lithium battery, up to 3 years operation without frequent alarms
<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>Docking Stations for Cal &amp; Bump</b>	UNI Single Docking Box CaliCase 4-Bay Docking Station
<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, others 1 to 2 years as per warranty
<b>Warranty</b>	2 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
<b>CO</b> (Carbon Monoxide)	1000/1	M001-0023-000
<b>H<sub>2</sub>S</b> (Hydrogen Sulfide)	100.0/0.1	M001-0054-000
	1000/1	M001-0060-000
<b>O<sub>2</sub></b> (Oxygen)	25/0.1%	M001-0032-000
<b>O<sub>2</sub></b> (Oxygen) Lead-Free	30/0.1%	M001-0095-000
<b>O<sub>2</sub></b> Inert Alarms	25/0.1%	M001-0093-000
	100/1	M001-0006-000
<b>NH<sub>3</sub></b> (Ammonia)	500/1	M001-0090-000
	50.0/0.1	M001-0004-000
<b>Cl<sub>2</sub></b> (Chlorine)	50.0/0.1	M001-0004-000
<b>ClO<sub>2</sub></b> (Chlorine Dioxide)	1.00/0.01	M001-0072-000
<b>H<sub>2</sub></b> (Hydrogen)	2000/1	M001-0019-000
<b>HCl</b> (Hydrogen Chloride)	15.0/0.1	M001-0008-000
<b>HF</b> (Hydrogen Fluoride)	20.0/0.1	M001-0014-000
<b>HCN</b> (Hydrogen Cyanide)	100/0.1	M001-0005-000
<b>NO</b> (Nitric Oxide)	250/1	M001-0015-000
<b>NO<sub>2</sub></b> (Nitrogen Dioxide)	20.0/0.1	M001-0011-000
<b>O<sub>3</sub></b> (Ozone)	5.00/0.01	M001-0009-000
<b>PH<sub>3</sub></b> (Phosphine)	20.00/0.01	M001-0016-000
	20.0/0.1	M001-0007-000
<b>SO<sub>2</sub></b> (Sulfur Dioxide)	100.0/0.1	M001-0091-000
<b>ETO</b> (Ethylene Oxide)	200.0/0.1	M001-0069-000
<b>CH<sub>3</sub>SH</b> (Methyl Mercaptan)	10.0/0.1	M001-0077-000
<b>THT</b> (Tetrahydrothiophene)	40.0/0.1	M001-0085-000

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