

## MP100

Single Gas Detectors.



### 01 PRODUCT DESCRIPTION

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 fluoride (HF), 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 MP100 can easily be bump tested and calibrated with the Docking Station or Docking Box.

### 02 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 calibration & download using docking station
- ATEX Certified

### 03 APPLICATIONS

- Petrochemical industry
- Fuel storage parks
- Water treatment plants
- Food industry
- Homeland security and First responder
- Industrial safety
- Hazmat responders
- Plants shut downs & turn-arounds
- Environmental
- Mining industry
- Construction

### 04 ACCESSORIES



**Docking-Station**  
Adjust and calibration station



**Docking Box**  
Adjust and calibration box

## 05 TECHNICAL SPECIFICATIONS

<b>Sensors</b>	Electrochemical
<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>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>	High, Low, STEL & TWA alarms adjustable
	Over range alarm
	Low battery alarm
<b>Señal Alarma</b>	95 dB @ 30 cm
	Bright red LEDs Built in vibrator
<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>	<b>UL</b> Class I, Div 1, Group ABCD Class II, Div 1, Group EFG Class III, Div 1
	T <sub>4</sub> , -20°C ≤ T <sub>amb</sub> +50°C
	<b>IECEX</b> Ex ia IIC T4 Ga
	<b>ATEX</b> II 1G Ex ia IIC T4
	European Conformity
<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>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

## 06 ORDERING INFORMATION

Gas	Range/ Resolution (ppm)	Reference	Gas	Range/ Resolution (ppm)	Reference
CO (Carbon Monoxide)	500/1	M001-0002-000	HCl (Hydrogen Chloride)	15.0/0.1	M001-0008-000
	1000/1	M001-0023-000	HF (Hydrogen Fluoride)	20.0/0.1	M001-0014-000
	2000/1	M001-0026-000	HCN (Hydrogen Cyanide)	100/1	M001-0005-000
H <sub>2</sub> S (Hydrogen Sulfide)	50.0/0.1	M001-0003-000	NO Nitric Oxide)	250/1	M001-0015-000
	100.0/0.1	M001-0054-000	NO <sub>2</sub> (Nitrogen Dioxide)	20.0/0.1	M001-0011-000
	200.0/0.1	M001-0057-000	O <sub>3</sub> (Ozone)	1.00/0.01	M001-0009-000
	1000/1	M001-0060-000	PH <sub>3</sub> (Phosphine)	20.00/0.01	M001-0016-000
O <sub>2</sub> (Oxygen)	25.0/0.1%	M001-0032-000	SO <sub>2</sub> (Sulfur Dioxide)	20.0/0.1	M001-0007-000
	30/0.1%	M001-0001-000		100.0/0.1	M001-0091-000
NH <sub>3</sub> (Ammonia)	100/1	M001-0006-000	C <sub>2</sub> H <sub>4</sub> O (Acetaldehyde)	20.0/0.1	M001-0080-000
	500/1	M001-0090-000	ETO (Ethylene Oxide)	100.0/0.1	M001-0012-000
Cl <sub>2</sub> (Chlorine)	50.0/0.1	M001-0004-000	CH <sub>3</sub> SH (Methyl Mercaptan)	200.0/0.1	M001-0069-000
ClO <sub>2</sub> (Chlorine Dioxide)	1.00/0.01	M001-0072-000	THT (Tetrahydrothiophene)	10.0/0.1	M001-0077-000
H <sub>2</sub> (Hydrogen)	1000/1	M001-0018-000		50.0/0.1	M001-0085-000
	2000/1	M001-0019-000	2000/1	M001-0019-000	