

UNI MP100 Single Gas Portable Detector

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Portable Gas Detector

UNI Single Gas Portable

- ▶ 50% larger (AA versus 2/3 AA) Lithium Battery
- ▶ Widest Choice of Sensors on the Market
- ▶ 50-Event Data Log
- ▶ Durable Housing
- ▶ UL Classification Class I, II, III, Groups ABCDEFG

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INVESTORS
IN PEOPLE



UNI MP100

The UNI MP100 offers simple, personal protection for a wide array of toxic gas and Oxygen (O₂) measurement applications.

The UNI offers a large LCD providing maximum readability in the field and three bright red LEDs allowing for alarm notification. Constructed with strong and durable materials, the UNI is designed to be comfortable and drop-resistant.

The UNI series can easily be bump tested and calibrated with the CaliCase System.



Common Sensors

- Ammonia (NH₃)
- Carbon Monoxide (CO)
- Hydrogen (H₂)
- Hydrogen Sulfide (H₂S)
- Nitric Oxide (NO)
- Nitrogen Dioxide (NO₂)
- Oxygen (O₂)
- Sulfur Dioxide (SO₂)

Exotic Sensor

- Chlorine (Cl₂)
- Chlorine Dioxide (ClO₂)
- Ethylene Oxide (ETO)
- Hydrogen Chloride (HCl)
- Hydrogen Cyanide (HCN)
- Hydrogen Fluoride (HF)
- Methyl Mercaptan (CH₄S)
- Ozone (O₃)
- Phosphine (PH₃)
- Tetrahydrothiophene (THT)

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Detector Accessories

Accessories	Description
Alligator Clip with Screw	N/A
Calibration and Bump Test Adapter with Tubing	N/A
External Hydrophobic Filter Clips with Filters for UNI (2 Pieces Each)	N/A
UNI Single Docking Station (MP100T)	For Bump Test, Calibration and Event Logging (Requires Separate Demand-Flow Regulator and Calibration Gas)
CaliCase 4-UNI Docking Station (MP300T1)	For Bump Test, Calibration and Event Logging (Requires Separate Calibration Gas)



Specification

<p>Size</p> <p>62 × 88 × 33 mm (2.44 × 3.46 × 1.3")</p>	<p>Weight</p> <p>125g (4.4 oz)</p>	<p>IR Rating</p> <p>IP-67</p>	<p>Temperature</p> <p>-20°C to 50°C (-4°F to 122°F)</p>
<p>Keypad</p> <p>2 Operation keys</p>	<p>Humidity</p> <p>5% to 95% Relative Humidity (Non-Condensing)</p>	<p>EMC Directive</p> <p>2014/30/EU</p>	<p>Sampling</p> <p>N/A</p>
<p>Battery</p> <p>Replaceable AA Sized Lithium Battery</p> <p>3-Year Typical Operation</p>	<p>Safety Certification</p> <p>Class I, Div 1, Group ABCD Class II, Div 1, Group EFG Class III, Div 1 T4, -20°C ≤ Tamb ≤ +50°C Ex ia IIC T4 Ga II 1G Ex ia IIC T4 Ga</p>	<p>Visual</p> <p>LCD 35 × 28mm (1.3 × 1.1")</p>	<p>Sensors</p> <p>Electrochemical</p>
<p>Calibration</p> <p>2-Point Calibration Zero and Span Power on Zero (User-Selectable)</p>		<p>Communication</p> <p>UNI Docking Stations for Bump Testing, Calibration, Configuration and Data Download IR Reader for Configuration and Data Download</p>	
<p>Warranty</p> <p>2-Years on O2, CO, H2S, SO2, HCN, NO, NO2, and PH3 Units Including Sensor 1-Year on all Others</p>	<p>Note</p> <p>Due to ongoing research and product improvement, specifications are subject to change without notice</p>	<p>Response Time</p> <p>15 seconds (CO/H2S/O2)</p> <p>Others Vary</p>	<p>Datalogging</p> <p>50 Alarm Events</p>
<p>Alarms</p> <p>Audible (95 dB @ 30cm) Visual (Flashing Bright Red LEDs) Vibration High, Low, STEL & TWA Adjustable Over Range Low Battery</p>		<p>Direct Readout</p> <p>Real-Time Reading of Gas Concentration Battery Status</p>	

Sensor Options

Sensor	Range	Resolution	Detector Part Number
Carbon Monoxide (CO)	1000	1	POR-UNI-CO
Hydrogen Sulphide (H ₂ S)	100.0	0.1	POR-UNI-H ₂ S
	200.0	0.1	POR-UNI-2H ₂ s
	1000.0	1	POR-UNI-1H ₂ S
Oxygen (O ₂)	25	0.1%	POR-UNI-O ₂ LF (lead-free)
	30	0.1%	POR-UNI-O ₂
	25	0.1%	POR-UNI-O ₂ IN (inverted)
Ammonia (NH ₃)	100	1	POR-UNI-NH ₃
	500	1	POR-UNI-HNH ₃
Chlorine (CL ₂)	50.0	0.1	POR-UNI-CL ₂
Chlorine Dioxide (ClO ₂)	1.00	0.01	POR-UNI-ClO ₂
Hydrogen (H ₂)	2000	1	POR-UNI-H ₂
Hydrogen Chloride (HCl)	15.0	0.1	POR-UNI-HCL
Hydrogen Fluoride (HF)	20.0	0.1	POR-UNI-HF
Hydrogen Cyanide (HCN)	100	0.1	POR-UNI-HCN
Nitric Oxide (NO)	250	1	POR-UNI-NO
Nitrogen Dioxide (NO ₂)	20.0	0.1	POR-UNI-NO ₂
Ozone (O ₃)	5.00	0.01	POR-UNI-O ₃
Phosphine (PH ₃)	20.00	0.01	POR-UNI-PH ₃
Sulphur Dioxide (SO ₂)	20.0	0.1	POR-UNI-SO ₂
	100.0	0.1	POR-UNI-HSO ₂
Ethylene Oxide (ETO)	200.0	0.1	POR-UNI-HETO
Methyl Mercaptan (CH ₃ SH)	10.0	0.1	POR-UNI-CH ₃ SH
Tetrahydrothiophene (THT)	40.0	0.1	POR-UNI-THT