Why choose Uni Gas?

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), 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 System.

Uni Single Gas Portable Detector
For detecting exotic gases

Feature, functions and benefits

- 50% larger (AA versus 2/3 AA) Lithium Battery
- Widest choice of sensors on the market
- Large display
- 50 Event data logging
- 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

Detector Specifications

Size	3.46 x 2.44 x 1.3 in (88 x 62 x 33 mm)
Weight	4.4 oz (125 g)
Sensors	Electrochemical
Response Time (t90)	15 seconds (CO/H2S/O2) 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	High, Low, STEL & TWA alarms adjustable Over range alarm Low battery alarm
Alarm Signal	95 dB @ 30cm Bright red LEDds Built in vibration
Calibration	2-point calibration, zero and span, power on zero (user-selectable)
Event Log	Up to 50 alarm events
IR Rating	IP-67
EMI/RFI	EMC directive: 2014/30/EU

Safety Certifications	UL
	    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 & H2S expected operating life 5 years or longer, others 1 to 2 years as per warranty
Warranty	2 years on O2, CO, H2S, SO2, HCN, NO, NO2, and PH3 units including sensor; 1 year on others

Sensor Specifications

Gas	Range/Resolution PPM	Detector P/N
Carbon Monoxide (CO)	500/1 1000/1 2000/1	POR-UNI-CO POR-UNI-HCO POR-UNI-2CO
Hydrogen Sulphide (H2S)	50.0/0.1 100.0/0.1 200.0/0.1 1000/1	POR-UNI-H2S POR-UNI-1H2s POR-UNI-2H2S POR-UNI-HH2S
Oxygen (O2)	25/0.1% 30/0.1%	M001-0032-000 POR-UNI-O2
Lead-free Oxygen (O2)	25/0.1% 30/0.1%	POR-UNI-O2LL M001-0095-000
Inerting Alarms (O2)	25/0.1%	M001-0093-000
Ammonia (NH3)	100/1 500/1	POR-UNI-NH3 POR-UNI-HNH3
Arsine (AsH3)	1.00/0.01	POR-UNI-ASH3
Chlorine (CL2)	50.0/0.1	POR-UNI-CL2
Chlorine Dioxide (ClO2)	1.00/0.01	POR-UNI-CLO2
Phosgene (COCl2)	1.00/0.01	POR-UNI-COCL2
Hydrogen (H2)	1000/1 2000/1	POR-UNI-H2 POR-UNI-2H2
Hydrogen Chloride (HCl)	15.0/0.1	POR-UNI-HCL
Hydrogen Fluoride (HF)	20.0/0.1	POR-UNI-HF
Hygrogen Cyanide (HCN)	100/0.1	POR-UNI-HCN
Nitric Oxide (NO)	250/1	POR-UNI-NO
Nitric Dioxide (NO2)	20.0/0.1	POR-UNI-NO2
Ozone (O3)	5.00/0.01	POR-UNI-O3
Phosphine (PH3)	20.00/0.01	POR-UNI-PH3
Sulphur Dioxide (SO2)	20.0/0.1 100.0/0.1	POR-UNI-SO2 POR-UNI-HSO2
Acetaldehyde (C2H4O)	20.0/0.1	POR-UNI-C2H4O
Ethylene Oxide (ETO)	100.0/0.1 200.0/0.1	POR-UNI-ETO POR-UNI-HETO
Methyl Mercaptan (CH3SH)	10.0/0.1	POR-UNI-CH3SH
Tetrahydrothiophene (THT)	40.0/0.1	POR-UNI-THT

Due to ongoing reasearch and product improvement, specifications are subect to change without notice.

Detector Accessories

Accessories	Description
Alligator, w/screw	N/A
Calibration/bump test adapter, w/tubing	N/A
External hydrophobic filter clips with filters for UNI (2 pcs each)	N/A
UNI Single Docking Station (MP100T)	For bump/cal and event logging. (requires separate demand-flow regulator and calibration gas)
CaliCase 4-UNI Docking Station (MP300T1)	For bump/cal and event logging. (requires separate calibration gas)