

2- or 3-Year Maintenance-Free CO, H₂S and O₂ Detectors



The UNI 321 is a disposable, maintenance-free version of the UNI single gas monitor. It detects H₂S, CO or O₂ in a selection of models with continuous operating lives of 24 months (MP102) or 36 months (MP103). MP102RT runs 2 years but has a hibernation feature that allows up to 3 years operation. The detectors have a large LCD providing maximum readability in the field. MP102 and MP103 display remaining battery run time, while MP102RT displays real-time concentrations. Six bright red LEDs allow for quick alarm notification. Constructed of strong and durable material, the UNI 321 is designed to be comfortable, yet drop-resistant. The UNI detectors can easily be bump tested and calibrated with Single Docking Box or CaliCase System.

Features, Functions and Benefits

- Simple GO, NO-GO!
- No Maintenance needed for life of instrument (except when used under extreme conditions)
- Low cost of ownership
- Large Display shows remaining operating time (MP102 & MP103) or concentration display (MP102RT)
- Durable Housing
- Solid stainless-steel Alligator Clip
- 50% larger single-cell Battery
- Daily functional Self-Test
- 50 Event Datalogging
- Docking Stations for calibration and event download
- UL Classification Class 123, Groups ABCDEFG





UNI Docking Box



CaliCase Docking Station

Detector Specifications

Size	3.46 x 2.44 x 1.3 in (8.8 x 6.2 x 3.3 cm)
Weight	4.4 oz (125 g)
Response time (t90)	15 seconds
Display	<ul style="list-style-type: none"> • MP102 & MP102: remaining operating time or alarm condition • MP102RT: real-time concentration and alarm condition
Alarm type	<ul style="list-style-type: none"> • High & Low alarms • Over range alarm • Low battery alarm
Alarm signal	<ul style="list-style-type: none"> • 95 dB @ 30 cm • Bright red LEDs • Built in vibrator
Calibration	Manual zero (UNI Docking Box or CaliCase/MP300T1 allow 2-point calibration, zero and span)
Event log	Up to 50 alarm events (Requires separate IR reader or docking station to download)
Temperature	-4°F to 122°F (-20°C to 50°C)
Humidity	5 to 95% relative humidity (non-condensing)
IP rating	IP-67
EMI/RFI	EMC directive: 2014/30/EU
Safety Certifications	<p> Class I, Div 1, Group ABCD Class II, Div 1, Group EFG Class III, Div 1 T4, -20°C ≤ T_{amb} ≤ +50°C</p> <p>IECEX Ex ia IIC T4 Ga</p> <p>ATEX  II 1G Ex ia IIC T4 Ga</p>
Operating life	<ul style="list-style-type: none"> • 2 years for MP102 • 3 years for MP103 • 2 years for MP102RT plus up to 1 more year if hibernation is used

Model Options

Gas	Range	Model	Display	P/N
CO (Carbon Monoxide)	1 – 500 ppm	MP103	Time left	M016-0001-000
		MP102	Time left	M015-0001-000
		MP102RT	Conc.	M015-0001-RT0
H₂S (Hydrogen Sulfide)	0.1 – 100 ppm	MP103	Time left	M016-0002-000
		MP102	Time left	M015-0002-000
		MP102RT	Conc.	M015-0002-RT0
O₂ (Oxygen)	0.1 – 30%	MP102	Time left	M015-0003-000

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