



MP400

Mutigas monitor for up to 5 gases.

01 PRODUCT DESCRIPTION

The MP400 is a basic 4-gas detector for worker safety in hazardous locations, with sensors for oxygen (O₂), combustibles (LEL), carbon monoxide (CO) and hydrogen sulfide (H₂S). A hydrogen cyanide (HCN) version (LEL/O₂/CO/HCN) is a low-cost monitor for firefighters and another 5 gases versión with sulfur dioxide (SO₂) is available for whom needs to monitor this gas.

The rechargeable Li-ion battery pack lasts 16 hours or more in typical use, and the unique Man-Down alarm feature notifies nearby workers if the user becomes incapacitated.

The simple, 2-button operation results in ultimate ease of use and significantly reduced time spent training the user.

The MP400 is designed to be extremely rugged with a robust housing and gas sampling by diffusion for no moving parts.

02 KEY FEATURES

- Diffusion sampling
- Battery operation 16 hours
- Durable double shot outer case
- 360-Degree LED alarm bar
- Man-Down alarm
- USB Micro charger & communications cable
- Flip screen
- Integrated calibration cup
- Smart sensors carry ID and calibration
- 6 Months continuous datalogging
- Modular design

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 TECHNICAL SPECIFICATIONS

Size	5.74 x 3.31 x 1.65 in (140 x 84 x 42 mm)
Weight	13.5 oz (384 g)
Sensors	Electrochemical for O ₂ , CO, H ₂ S and HCN Pellistor for LEL
Response time (t90)	15 seconds (LEL/CO/H ₂ S/O ₂) 30 seconds (sensor duo CO/H ₂ S) 60 seconds (HCN)
Battery	Rechargeable Li-ion pack: ≥16 hours Real-time reading of gas concentration Visual compliance indicator Battery status
Direct Readout	Datalogging on/off STEL, TWA, peak and minimum values Man-Down alarm on/off
Display	128 x 128 graphical LCD, 1.77 x 1.73 in (45 x 44 mm), with LED backlight for enhanced display readability. Automatic screen "flip" feature
Keypad	2 operation keys
Calibration	Manual calibration. CaliCase option allows automatic bump test and calibration on up to 4 units simultaneously Audible (95 dB @ 30 cm) Visual (flashing bright red LEDs) Vibration On-screen indication of alarm conditions Man-Down alarm
Alarms	
Datalogging	Continuous datalogging (6 months for 4 sensors at 1 minute intervals, 24 hours/day and 7 days/week)
Charging and Communication	Charging, data download, instrument setup and firmware upgrades on PC or laptop via PC comm, cradle, travel charger, or CaliCase
Temperature	-4° to 122°F (-20° to 50°C)
Humidity	0% to 95% Relative humidity (non-condensing)
IP Rating	IP-67
EMC/RFI	EMC directive: 2014/30/EU
Safety Certifications	UL Class I, Div 1, Group ABCD T4, -20°C T _{amb} +50°C IECEX Ex ia IIC T4 Ga ATEX II 1G Ex ia IIC T4 Ga European Conformity
Warranty	2 years including sensors

05 ORDERING INFORMATION

Version	Sensor/Range	Reference	Version	Sensor/Range	Reference
5-Gas	LEL	0.1 - 100%	4-Gas	LEL	0.1 - 100%
	O ₂	0.1 - 30%		O ₂	0.1 - 30%
	CO*	1 - 500 ppm		CO	1 - 1000 ppm
	H ₂ S*	0.1 - 200 ppm		H ₂ S	0.1 - 100 ppm
	SO ₂	0.1 - 20 ppm		LEL	0.1 - 100%
4-Gas	LEL	0.1 - 100%	3-Gas	O ₂	0.1 - 30%
	O ₂	0.1 - 30%	H ₂ S	1 - 100 ppm	
	CO	1 - 1000 ppm	LEL	0.1 - 100%	
	H ₂ S	0.1 - 100 ppm	O ₂	0.1 - 30%	
			2-Gas	LEL	1 - 100
			1-Gas	LEL	1 - 100