

Multi-Gas Monitors




The POLI 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 a 5-gas version is available for those who need to include sulfur dioxide (SO₂) measurements. The MP400 is designed to be extremely rugged with a robust housing and gas sampling by diffusion for no moving parts. The simple, 2-button operation results in ultimate ease of use and significantly reduced time spent training the user. 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.

Features, Functions and Benefits

- 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

Detector Specifications

| | |
|-----------------------------------|--|
| Size | 5.74 x 3.31 x 1.65 in (140 x 84 x 42 mm) |
| Weight | 13.5 oz (384 g) |
| Sensors | <ul style="list-style-type: none"> • Electrochemical for O₂, CO, H₂S and HCN • Pellistor for LEL |
| Response time (t90) | <ul style="list-style-type: none"> • 15 seconds (LEL/CO/H₂S/O₂) • 30 seconds (CO/H₂S combination sensor) • 60 seconds (HCN) |
| Battery | Rechargeable Li-ion pack: ≥16 hours |
| Direct Readout | <ul style="list-style-type: none"> • Real-time reading of gas concentration • visual compliance indicator • battery status • 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 |
| Alarms | <ul style="list-style-type: none"> • Audible (95 dB @ 30 cm) • Visual (flashing bright red LEDs) • Vibration • On-screen indication of alarm conditions • Man-Down alarm |
| 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 |  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 (pending) CE European Conformity (pending) |
| Warranty | 2 Years including sensors |

Ordering Information

| Version | Sensor/Range | Part No. |
|--------------|---|---|
| 5-Gas | LEL 0.1 - 100% | M004-0028-000 * (combination CO/H ₂ S sensor) |
| | O ₂ 0.1 - 30% | |
| | CO* 1 - 500 ppm / | |
| | H ₂ S* 0.1 - 200 ppm SO ₂ 0.1 - 20 ppm | |
| 4-Gas | LEL 0.1 - 100% | M004-0001-000 |
| | O ₂ 0.1 - 30% | |
| | CO 1 - 1000 ppm | |
| | H ₂ S 0.1 - 100 ppm | |
| 4-Gas | LEL 0.1 - 100% | M004-0027-000 |
| | O ₂ 0.1 - 30% | |
| | CO 1 - 1000 ppm | |
| | HCN 1 - 100 ppm | |
| 3-Gas | LEL 0.1 - 100% | M004-0002-000 |
| | O ₂ 0.1 - 30% | |
| | H ₂ S 0.1 - 100 ppm | |
| 2-Gas | LEL 0.1 - 100% | M004-0005-000 |
| | O ₂ 0.1 - 30% | |
| 1-Gas | LEL 0.1 - 100% | M004-0009-000 |



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