

POLI

Multi-Gas Detectors



NEW



- ✓ **MAN DOWN ALARM**
- ✓ **IP65/67 WATER RESISTANT**
- ✓ **PUMP OR DIFFUSION VERSION**
- ✓ **WIRELESS OR NON-WIRELESS VERSION**
- ✓ **OVER 30+ SENSOR OPTIONS**
- ✓ **INTELLIGENT SENSORS STORE CALIBRATION DATA**
- ✓ **AUTO FLIP SCREEN WHEN DETECTOR ARE UPSIDE DOWN**

The POLI multi-gas detectors (MP400/MP400P/MP400S) offer 4 or 5-gas monitoring of oxygen (O₂), combustible (LEL), toxic, carbon dioxide (CO₂) gases and volatile organic vapors (VOCs). The MP400 and MP400P are basic models of O₂, LEL, carbon monoxide (CO) and hydrogen sulfide (H₂S) configuration in diffusion and pump for compliance application. The MP400S adopts a full range of sensor selection, e.g. electrochemical (EC), pellistor, non-dispersive infrared (NDIR) and photo-ionization detector (PID) in pump. An option of wireless communication enable real-time monitoring of gas readings and alarm status including Man Down Alarm from remote locations for better visibility and faster response.

Features

- Available in diffusion or pump version
- Man Down Alarm with real-time remote wireless notification
- IP-65/67 water and dust resistant case
- Real-time gas concentration readings and alarm status enabled by state-of-the-art wireless technology
- Large graphical display icon-driven user interface through intuitive, simple-to-operate two-button user interface
- Easy access to pump, sensor, filter and battery
- Over 30 interchangeable sensor options, including PID for VOC, NDIR and catalytic for combustibles, and NDIR for CO₂
- Intelligent sensors store calibration data, so they can be swapped in the field

Applications

Confined space entry and general safety compliance in:

- Industrial safety
- Oil and gas
- Fire ground "Toxic Twins" detection
- Environmental
- Chemical
- Pharmaceutical
- Telecommunications

Multi-gas leak detection in industries such as chemical, food and beverage, oil and gas (downstream)

POLI Specifications

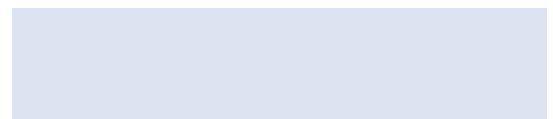
Detector Specifications

Size	5.74 x 3.31 x 1.65 in (140 x 84 x 42 mm)
Weight	14 oz (400 g)
Sensor	Over 30 interchangeable and field-replaceable sensors including PID for VOCs, EC for Toxic and O2, Pellistor for LEL, and NDIR for LEL and CO2
Battery	Rechargeable Li-ion pack: 18 hours in diffusion with no wireless, 16 hours in diffusion with wireless, 12 hours in pump with no wireless, and 10 hours in pump with wireless
Direct Readout	Real-time reading of gas concentration, PID measurement gas and correction factor, Man Down Alarm on/ off, visual compliance indicator, battery status, datalogging on/off, wireless on/off and reception quality STEL, TWA, peak and minimum values
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
Sampling	Built-in pump or diffusion
Calibration	Manual or automatic bump test and calibration with CaliCase (separate orders)
Alarm	Wireless remote alarm notification, audible (90dB@30cm), vibration, visual (flashing bright red LEDs), and on-screen indication of alarm conditions Man Down Alarm with pre-alarm and real-time remote wireless notification
Datalogging	Continuous datalogging (6 months for 4 sensors at 1 minute intervals, 24 hours a day and 7 days a week)
Charging and Communication	Charging, data download, instrument setup and firmware upgrades on PC or laptop via PC comm, cradle, travel charger, or CaliCase Wireless data and alarm status transmission via built-in RF modem (optional)
Temperature	-4° to 122°F (-20°C to 50°C)
Humidity	0% to 95% relative humidity (non-condensing)
IP Rating	IP-65 (pump); IP-67 (diffusion)
Safety Certifications	UL/cUL: Class I, Div 1, Group A, B, C, D T4, -20° C ≤ Tamb ≤ +50° C (pending)
EMC/RFI	EMC directive: 2004/108/EC
Warranty	2-year including most sensors

Sensor Specifications

Sensor	Range	Resolutions
PID	0-1000ppm	0.1ppm
Oxygen (O2)	0-30%Vol	0.1%Vol
Combustible (LEL)	0-100%LEL	1%LEL
Carbon Monoxide (CO)	0-1000ppm	1ppm
Hydrogen Sulfide (H2S)	0-100ppm	0.1ppm
Ethylene Oxide (ETO)	0-100ppm	0.1ppm
Hydrogen Fluoride (HF)	0-10ppm	0.1ppm
Nitric Oxide (NO)	0-250ppm	1ppm
Methanethiol (CH3SH)	0-10ppm	0.1ppm
Sulfur Dioxide (SO2)	0-20ppm	0.1ppm
Hydrogen Cyanide (HCN)	0-100ppm	1ppm
Ammonia (NH3)	0-50ppm	1ppm
Phosphine (PH3)	0-5ppm	0.01ppm
Chlorine (Cl2)	0-10ppm	0.1ppm
Nitrogen Dioxide (NO2)	0-20ppm	0.1ppm
Hydrogen Chloride (HCl)	0-15ppm	0.1ppm
Chlorine Dioxide (ClO2)	0-1ppm	0.01ppm
Acetaldehyde (C2H4O)	0-20ppm	0.1ppm
Combustible (Vol%)	0-100%Vol	0.1%Vol
Carbon Dioxide (CO2)	0-5000ppm	100ppm
CO+H2S	0-500ppm	1ppm
	0-200ppm	0.1ppm

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