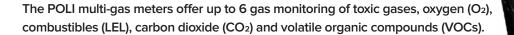


POLI MP400/MP400P

Confined Space Entry Monitors



The POLI MP400P is an advanced model with built-in pump that allows a full selection of sensors for a wide range of applications, including Confined Space Entry, while the POLI MP400 is a basic, 4-6 gas diffusion detector for worker safety at hazardous locations. Smart sensors carry calibration and ID information with them for quick exchange in the field during Hazmat response.

Specific sensors include electrochemical (EC) for carbon monoxide (CO), hydrogen sulfide (H₂S), ammonia (NH₃), hydrogen cyanide (HCN), hydrogen chloride (HCI), chlorine (Cl2), chlorine dioxide (CIO₂), nitric oxide (NO), nitrogen dioxide (NO₂), sulfur dioxide (SO₂), ethylene oxide, methyl mercaptan, and others.

Also available are pellistor for LEL level combustibles, non-dispersive infrared (NDIR) for Vol% level CO2 or methane. and photo-ionization detector (PID) for ppm level VOCs. Use of combination CO/H₂S or SO₂/H₂S and CH₄/CO₂ sensors allows up to 6 gas measurements

in a single instrument. The MP400/400P has rugged construction and easy-tolearn 2-button operation. The unique Man-Down alarm feature notifies team workers wirelessly if a user becomes incapacitated.





▼POLI MonoDock

KEY FEATURES

- · Wide selection of "plug-andplay" Smart Sensors (carry calibration data)
- · 4 Sensor slots for up to 6 gas measurements using combination sensor
- 16-Hour rechargeable Li-ion battery (diffusion version)
- Pump-off switch and low-power sensor options save battery for longer operation
- 360-Degree LED alarm bar and Man-Down alarm; Flip screen
- USB Micro charger & communications cable

- Optional POLI MonoDock station for automated bump test and calibration
- · 6 Months continuous datalogging

20.9

LEL(%LEL)

Test

390

- Durable double shot outer case
- · Wireless remote team communication available (see mSquad & mPlatoon datasheets)
- Mobile App for POLI simulation and training in smartphone or tablet

POLI MP400/MP400P

RANGE OF GASES DETECTED

Sensor		Range	Resolution
PIDP		"0-200 ppm 0-2000 ppm 0-10000 ppm"	"0.01 ppm 0.1 ppm 1 ppm"
Oxygen (O ₂)	Lead Wool Lead-Free	"0-30%Vol 0-30%Vol"	"0.1%Vol"
Combustibles (LEL%)		0-100%LEL	0.1%/1%LEL
NDIR Methane (LEL%)		0-100%LEL	1%LEL
NDIR Methane (Vol%)		0-100%Vol	0.1%Vol
Dual-Range LEL%/Vol%		0-100%Vol	1%LEL
NDIR Dual-gas Methane + CH ₄ CO ₂ CO ₂		0-100%LEL 0-50000 ppm	"1%LEL 100 ppm"
NDIR Bio-gas* Methane + CH ₄ CO ₂ CO ₂		"0-100%VOL 0-100%VOL"	"1%VOL 1%VOL"
CO ₂ (Carbon Dioxide)		0-50000 ppm	100 ppm
CO (Carbon Monoxide)		0-1000 ppm	1 ppm
H ₂ S (Hydrogen Sulfide)		"0-100 ppm 0-1000 ppm"	"0.1 ppm 1 ppm"
CO + H ₂ S		"0-500 ppm 0-200 ppm"	"1 ppm 0.1 ppm"
SO ₂ + H ₂ S		"0-20 ppm 0-100 ppm"	"0.1 ppm 0.1 ppm"

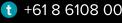
Sensor	Range	Resolution
NH₃ (Ammonia)P	"0-100 ppm 0-500 ppm"	"1 ppm 1 ppm"
Cl ₂ (Chlorine)P	0-50 ppm	0.1 ppm
ClO ₂ (Chlorine Dioxide)P	0-1 ppm	0.01 ppm
COCl ₂ (Phosgene)P	0-1 ppm	0.01 ppm
H ₂ (Hydrogen)	0-1000 ppm	1 ppm
HCI (Hydrogen Chloride)P	0-15 ppm	0.1 ppm
HF* (Hydrogen Fluoride)P	0-20 ppm	0.1 ppm
HCN (Hydrogen Cyanide P	0-100 ppm	0.1 ppm
NO (Nitric Oxide)	0-250 ppm	1 ppm
NO ₂ (Nitrogen Dioxide)P	0-20 ppm	0.1 ppm
N ₂ O (Nitrous Oxide)	0-1000 ppm	10 ppm [†]
PH ₃ (Phosphine)	"0-20 ppm 0-1000 ppm"	"0.01 ppm 1 ppm"
SO ₂ (Sulfur Dioxide)	"0-20 ppm 0-100 ppm"	"0.1 ppm 0.1 ppm"
ETO (Ethylene Oxide)P	0-100 ppm	0.1 ppm
CH3SH (Methyl Mercaptan)	0-10 ppm	0.1 ppm
THT (Tetrahydrothiophene)P	0-40 ppm	0.1 ppm

SPECIFICATIONS Specifications subject to change without notice

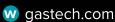
Size	140 x 84 x 42 mm
Weight	435 g
Sensors	Over 30 interchangeable and field-replaceable sensors including PID for VOCs, EC for Toxic and O ₂ , Pellistor for LEL, and NDIR for LEL, Vol% & CO2
Response Time (t90)	 15 seconds (LEL/CO/H2S/O2) Others vary – see TA Note 4 at www.mpowerinc. com
Battery	Rechargeable Li-ion pack: 16 hours in diffusion mode, 12 hours with pump
Direct Readout	 Real-time reading of gas concentration PID measurement gas and correction factor, Visual compliance indicator Battery status Datalogging on/off STEL, TWA, peak and minimum values Man-Down alarm on/off
Display	128 \times 128 graphical LCD, 1.77 \times 1.73 in (45 \times 44 mm), with LED backlight for enhanced readability. Automatic screen flip feature
Keypad	2 Operation keys
Sampling	Bulit-in pump (MP400P) or diffusion (MP400)
Calibration	Manual calibration or automated using POLI Docking Box. CaliCase option allows automatic bump test and calibration on up to 4 units simultaneously

Alarms	 Audible (95 dB @ 30 cm) Visual (flashing bright red LEDs) Vibration On-screen indication of alarm conditions Man-Down alarm with pre-alarm Panic Alarm (manual)
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-65 (pump versions); IP-67 (diffusion versions)
Safety Certifications	Class I, Div 1, Group ABCD T4, -20°C ≤ Tamb ≤ +50°C IECEx Ex ia IIC T4 Ga II 1G Ex ia IIC T4 Ga European Conformity
EMC/RFI	EMC directive: 2014/30/EU
Warranty	 2 Years on instruments 2 Years on sensors for LEL, LEL/Vol, O2, CO, CO2, H2S, SO2, HCN, NO, NO2, and PH3 1 Year on other sensors









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