PULI MP400/MP400



Confined Space Entry Monitors



The POLI multi-gas meters offer 4-gas monitoring of toxic gases, oxygen (O₂), combustibles (LEL), carbon dioxide (CO₂) and volatile organic compounds (VOCs). 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-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 (HCl), chlorine (Cl₂), chlorine dioxide (ClO₂), 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-to-learn 2-button operation. The unique Man-Down alarm feature notifies team workers wirelessly if a user becomes incapacitated.

Features, Functions and Benefits

- Wide selection of "plug-and-play" 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
- 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 MonoDock

PULI Specifications

Detector Specifications

Size	5.74 x 3.31 x 1.65 in (140 x 84 x 42 mm)		
Weight	15.5 oz (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% & CO ₂		
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 x 128 graphical LCD, 1.77 x 1.73 in (45 x 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 ≤ T _{amb} ≤ +50°C IECEX Ex ia IIC T4 Ga ATEXE I 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 		

Sensor Options‡

PIDP 0-200 ppm 0-2000 ppm 0-10000 ppm 0.01 ppm 0.1 ppm 0-10000 ppm 0.1 ppm 1 ppm Oxygen (O₂) Lead Wool Lead-Free 0-300VOI 0-30%VOI 0.1%VOI 0.1%VOI Combustibles (LEL%) 0-100%LEL 0.1%VI%LEL NDIR Methane (LEL%) 0-100%LEL 1%LEL NDIR Methane (Vol%) 0-100%VOI 1%LEL NDIR Dual-gas CH4 Methane + CO₂ CO₂ 0-50000 ppm 10 ppm* NDIR Bio-gas Methane + CO₂ CO₂ CH4 0-100%VOL 1%VOL 1%VOL CO₂ (Carbon Dioxide) 0-50000 ppm 10 ppm* CO (Carbon Monoxide) 0-50000 ppm 1 ppm CO + H₂S CO H₂S CO 0-5000 ppm 1 ppm CO + H₂S CO 0-500 ppm 0-1000 ppm 1 ppm CO + H₂S CO 0-500 ppm 0-1000 ppm 1 ppm NH₃ (Ammonia) ^P 0-100 ppm 0-100 ppm 0-1 ppm 0-1 ppm NH₃ (Chlorine) ^P 0-500 ppm 0-1 ppm 1 ppm CI₂ (Chlorine Dioxide) ^P 0-1 ppm 0-100 ppm 0-1 ppm 1 ppm CI₂ (Chlorine Dioxide) ^P 0-1 ppm 0-100 ppm 0-1 ppm 0-1 ppm CI₂ (Chlorine Dioxide) ^P 0-1 ppm 0-100 ppm 0-1 ppm 0-	Sensor	Range Resolution	
Lead-Free 0-30%Vol 0.1%Vol Combustibles (LEL%) 0-100%LEL 0.1%/1%LEL	PID ^P	0-2000 ppm	0.1 ppm
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 + CO₂ CO₂ 0-50000 ppm 10 ppm* NDIR Bio-gas Methane + CO₂ CO₂ 0-100%VOL 1%VOL			
NDIR Methane (Vol%) 0-100%Vol 0.1%Vol Dual-Range LEL%/Vol% 0-100%Vol 1%LEL NDIR Dual-gas CH4 Methane + CO₂ 0-50000 ppm 10 ppm* NDIR Bio-gas CH4 Methane + CO₂ 0-100%VOL TWOL TWOL TWOL TWOL TWOL TWOL TWOL TW	Combustibles (LEL%)	0-100%LEL 0	.1%/1%LEL
Dual-Range LEL%/Vol% 0-100%Vol 1%LEL NDIR Dual-gas CH4 Methane + CO₂ 0-50000 ppm 10 ppm* NDIR Bio-gas CH4 Methane + CO₂ 0-100%VOL CO₂ 1%VOL 1%VOL CO₂ Methane + CO₂ CO₂ 0-100%VOL CO₂ 1%VOL CO₂ CO₂ (Carbon Dioxide) 0-50000 ppm 1 ppm CO (Carbon Monoxide) 0-1000 ppm O-1000 ppm 0.1 ppm L₂S (Hydrogen Sulfide) 0-100 ppm O-1000 ppm O-1000 ppm 1 ppm CO + H₂S CO O-500 ppm O-1000 ppm O-1 ppm 0-1 ppm SO₂ + H₂S SO₂ O-20 ppm O-100 ppm O-1 ppm 0-1 ppm NH₃ (Ammonia)P 0-100 ppm O-500 ppm O-1 ppm 1 ppm CI₂ (Chlorine)P 0-500 ppm O-1 ppm 0.1 ppm COC₂ (Chlorine Dioxide)P 0-1 ppm O-1000 ppm O-1 ppm 0.01 ppm H₂ (Hydrogen) 0-1 ppm O-1000 ppm O-1 ppm 0.1 ppm HCI (Hydrogen Chloride)P 0-20 ppm O-1 ppm O-1 ppm 0.1 ppm HCI (Hydrogen Dioxide)P 0-20 ppm O-1 ppm O-1 ppm 0.1 ppm NO₂ (Nitrous Oxide) 0-20 ppm O-1 ppm O-1 ppm 0.1 ppm NO₂ (Sulfur Dioxide) 0-2	NDIR Methane (LEL%)	0-100%LEL	1%LEL
NDIR Dual-gas Methane + CO₂ CH₄ CO₂ 0-100%LEL 0-50000 ppm 1%LEL 10 ppm* NDIR Bio-gas NDIR Bio-gas Methane + CO₂ CH₄ CO₂ 0-100%VOL 0-100%VOL 1%VOL 1%V	NDIR Methane (Vol%)	0-100%Vol	0.1%Vol
Methane + CO₂ CO₂ 0-50000 ppm 10 ppm* NDIR Bio-gas Methane + CO₂ CH4 CO₂ 0-100%VOL 0-100%VOL 1%VOL 1%VOL CO₂ (Carbon Dioxide) 0-50000 ppm 10 ppm* CO (Carbon Monoxide) 0-1000 ppm 1 ppm H₂S (Hydrogen Sulfide) 0-1000 ppm 0-1000 ppm 0.1 ppm 1 ppm CO + H₂S CO H₂S 0-500 ppm 0-200 ppm 1 ppm 0.1 ppm SO₂ + H₂S SO₂ 0-20 ppm 0-100 ppm 0-100 ppm 0.1 ppm NH₃ (Ammonia)P 0-100 ppm 0-500 ppm 1 ppm 0-500 ppm CI₂ (Chlorine)P 0-50 ppm 0.1 ppm CIO₂ (Chlorine Dioxide)P 0-1 ppm 0.01 ppm COCI₂ (Phosgene)P 0-1 ppm 0.01 ppm H₂ (Hydrogen) 0-1000 ppm 1 ppm HCI (Hydrogen Chloride)P 0-15 ppm 0.1 ppm HCI (Hydrogen Fluoride)P 0-100 ppm 0.1 ppm HCN (Hydrogen Cyanide)P 0-20 ppm 0.1 ppm NO₂ (Nitrous Oxide) 0-20 ppm 0.1 ppm NO₂ (Nitrous Oxide) 0-20 ppm 0.01 ppm </th <th>Dual-Range LEL%/Vol%</th> <th>0-100%Vol</th> <th>1%LEL</th>	Dual-Range LEL%/Vol%	0-100%Vol	1%LEL
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CO + H₂S CO	CO (Carbon Monoxide)	0-1000 ppm	1 ppm
H₂S	H₂S (Hydrogen Sulfide)		
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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 NO₂ (Nitrogen Dioxide) ^P 0-20 ppm 0.1 ppm N₂O (Nitrous Oxide) 0-1000 ppm 10 ppm [†] PH₃ (Phosphine) 0-20 ppm 0-1000 ppm 0.01 ppm 1 ppm SO₂ (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	COCI ₂ (Phosgene) ^P	0-1 ppm	0.01 ppm
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HCN (Hydrogen Cyanide) ^P 0-100 ppm 0.1 ppm NO (Nitric Oxide) 0-250 ppm 1 ppm NO₂ (Nitrogen Dioxide) ^P 0-20 ppm 0.1 ppm N₂O (Nitrous Oxide) 0-1000 ppm 10 ppm [†] PH₃ (Phosphine) 0-20 ppm 0-1000 ppm 0.01 ppm 1 ppm SO₂ (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	HCI (Hydrogen Chloride) ^P	0-15 ppm	0.1 ppm
NO (Nitric Oxide) 0-250 ppm 1 ppm NO₂ (Nitrogen Dioxide) ^P 0-20 ppm 0.1 ppm N₂O (Nitrous Oxide) 0-1000 ppm 10 ppm [†] PH₃ (Phosphine) 0-20 ppm 0-1000 ppm 0.01 ppm 1 ppm SO₂ (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	HF (Hydrogen Fluoride) ^P	0-20 ppm	0.1 ppm
NO₂ (Nitrogen Dioxide) ^P 0-20 ppm 0.1 ppm N₂O (Nitrous Oxide) 0-1000 ppm 10 ppm [†] PH₃ (Phosphine) 0-20 ppm 0-1000 ppm 0.01 ppm 1 ppm SO₂ (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		0-100 ppm	0.1 ppm
N₂O (Nitrous Oxide) 0-1000 ppm 10 ppm [†] PH₃ (Phosphine) 0-20 ppm 0-1000 ppm 0.01 ppm 1 ppm SO₂ (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	•	0-250 ppm	
PH ₃ (Phosphine) 0-20 ppm 0-1000 ppm 1 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 CH ₃ SH (Methyl Mercaptan) 0-10 ppm 0.1 ppm			
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ETO (Ethylene Oxide) O-100 ppm 0.1 ppm CH ₃ SH (Methyl Mercaptan) O-100 ppm 0.1 ppm 0.1 ppm 0.1 ppm	PH₃ (Phosphine)		
CH₃SH (Methyl Mercaptan) 0-10 ppm 0.1 ppm	SO ₂ (Sulfur Dioxide)		
	ETO (Ethylene Oxide) ^P	0-100 ppm	0.1 ppm
THT (Tetrahydrothiophene) ^P 0-40 ppm 0.1 ppm		0-10 ppm	0.1 ppm
	THT (Tetrahydrothiophene) ^P	0-40 ppm	0.1 ppm

P Use in pumped models is strongly preferred * 200 ppm deadband [†] 100 ppm deadband [‡] See TA Note 4 for all sensor specifications



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