

MUNI MP420

Compact & Lightweight 4-Gas Monitors



The MUNI MP420 is a compact and lightweight 4-gas detector for worker safety at hazardous locations, with four standard sensors for oxygen (lead-free, O₂), combustibles (LEL), carbon monoxide (CO) and hydrogen sulfide (H₂S). Alternative sensors are low power infrared methane (CH₄), sulfur dioxide (SO₂), and hydrogen cyanide (HCN).

The detector is packaged in a robust housing with no moving parts. Its battery power offers 2 work shifts of run time for a standard 4-gas detector, and extended run time using a low-power infrared sensor. The simple, 2-button operation results in ultimate ease of use and significantly reduced time spent training the user.

WHATS INCLUDED

- MP420 detector including rechargeable Li+ battery, selected sensors and alligator clip
- AC Charging adapter
- Calibration cap
- USB Communication cable
- Quick start guide
- Calibration certificate

OPTIONAL

- External filters
- BLE Wireless
- MuniDock MP420T bump & calibration station

KEY FEATURES

- Compact, robust, lightweight & wearable
- Auto backlit LCD with large numeric digits
- Easy-to-navigate menu with two buttons
- Up to 4 replaceable sensors out of 7 choices; non-interchangeability reduces monitor cost
- Battery operation 24 hours with pellistor LEL sensor; extended time with low-power infrared LEL sensor
- Tri-color status indicators on regular self-diagnosis of sensor, battery & circuit
- Wide angle LED alarms
- 1000 Events log
- Combination charge adapter / micro-USB PC interface cable
- IP-68 weather ingress rating
- Optional BLE wireless connectivity
- Optional MuniDock or CaliCase for convenient bump & calibration



▲ MUNI Docking Box



▲ MUNI4-Bay CaliCase Docking Station

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RANGE OF GASES DETECTED

Sensor*	Resolution & Range	Response Time (t90)
1. Combustibles (Pellistor) or (NDIR)†	1 - 100% LEL	15 sec
	1 - 100% LEL CH4	30 sec
2. Oxygen (O ₂) (Lead-free)‡	0.1 - 30.0% Vol	15 sec
3. Hydrogen Sulfide (H ₂ S) or Hydrogen Cyanide (HCN)	0.1 - 100 ppm	15 sec
	0.1 - 50.0 ppm	45 sec
4. Carbon Monoxide (CO) or Sulfur Dioxide (SO ₂)	1 - 1000 ppm	15 sec
	0.1 - 20.0 ppm	30 sec

* Sensors are replaceable but NOT interchangeable. Sen-sor configuration must be decided at time of purchase be-cause each configuration has a unique circuit board.

† NDIR CH4 sensor detects methane and most hydrocar-bons, but not some combustible gases such as hydrogen, acetylene and carbon disulfide. Contact mPower for as-sessment or approval for use in practical applications.

‡ Pb-free (LF, Lead-free) O₂ sensor has a longer life span than the galvanic version (currently not offered on MUNI), but requires more battery power.

SPECIFICATIONS Specifications subject to change without notice

Size	110 x 60 x 30 mm	Docking Stations for Cal & Bump	<ul style="list-style-type: none"> • Charging with AC adapter or cable to PC • PC comm for data download, monitor set-up & firmware upgrades via cable, optional BLE (Bluetooth Low Energy), or MuniDock
Weight	230 g	IP rating	IP-67
Sensors	<ul style="list-style-type: none"> • Standard: LEL (Pellistor), O₂ LF‡, CO & H₂S • Alternatives: CH₄ (NDIR†), SO₂ and HCN • Replaceable but not interchangeable 	Safety Certifications	IECEx Ex da ia IIC T4 Ga Class I, Div 1, Group ABCD CULUS T4, -20°C ≤ Tamb ≤ +50°C ATEX II 1G Ex da ia IIC T4 Ga CE European Conformity
Battery	Rechargeable Li-ion pack: up to 18 hours with Pellistor; extended run time with NDIR	EMC/RFI	EMC directive: 2014/30/EU
Temperature	-20°C to 50°C	Warranty	2 Years including sensors 3 Years with CH ₄ (NDIR)/O ₂ (Lead-free)/H ₂ S/CO
Humidity	5 to 95% relative humidity (non-condensing)		
Calibration & Bump Test	Manual with calibration cup. MuniDock single-bay (MP420T) or CaliCase 4-bay (MP342) options allow automated bump test and cali-bration and printing certi-ficates		
Alarm	<ul style="list-style-type: none"> • Audible (95 dB @ 30 cm) • Visual (tri-color LEDs) • Vibration 		
Datalogging	1000 Events (alarms, function tests and calibrations)		
Charging and Communication	2-point calibration, zero and span, power on zero (user-selectable)		



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