M3SH
We set the standard

DPM50 AT A GLANCE

- **Real-time monitoring**
- **Intrinsic safe design**
- **Wired and wireless communication options**
- **User-friendly interface**

DPM50 DIESEL PARTICULATE MATTER MONITOR

Where Innovation Meets Safety

ENGINEERED TO EXCEL IN HAZARDOUS ENVIRONMENTS

Equipped with the ability to monitor a wide range of environmental parameters, the DPM50 offers comprehensive insights into the surrounding conditions.

Safety is paramount in hazardous environments, which is why the DPM50 features an intrinsic safe Exia design. This design ensures that electrical energy levels remain below ignition thresholds, reducing the risk of accidents or incidents.

Wired communication via Modbus RTU RS-485 serial communication allows for seamless connectivity to supervisory control and data acquisition (SCADA) systems. Additionally, wireless options such as M3SH network, Private 5G, 802.15.4, WiFi, and GSM provide enhanced connectivity and flexibility.

Designed for ease of use, the DPM50 requires minimal setup and configuration, with real-time measurement display and data availability on both the device and communication network.

AVAILABLE MODELS

STANDARD MODEL

The operating voltage is 9 - 48 VDC

INTRINSIC SAFE

For use in hazardous locations. 9 - 18 VDC powered from an intrinsic safe power supply

ABOUT US

M3SH Technology is a Canadian OEM committed to creating an ecosystem of intelligent and integrated products that all work together to protect people and productivity. Providing clients with real-time data collected from sensors in the harshest industrial environments. Our technologies lead to increased automation, predictive maintenance, self-optimization of process improvements and a new level of efficiency and responsiveness to customers not previously possible.
M3SH Technology's goal is to empower our clients to monitor and manage risk with the best technology the industry has to offer and to prove that they have done everything in their power to manage risk to people and productivity: Intelligently.
Together, We Set The Standard.

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ADVANTAGES OF THE DPM50

ADVANCED MONITORING CAPABILITIES
The DPM50 provides real-time data to ensure regulatory compliance and workplace safety. Using edge AI, the DPM50 enables predictive analysis by processing data locally at the point of collection.

ENVIRONMENTAL MONITORING
By continuously monitoring critical variables, the device helps to safeguard both personnel and equipment, ensuring smooth operations even in challenging environments.

INTRINSIC SAFE EXIA DESIGN
Users can choose the desired level of fault tolerance during operation.

FLEXIBLE COMMUNICATION OPTIONS
The DPM50 has wired and wireless capabilities to meet any connectivity requirements.

USER-FRIENDLY DESIGN
This user-friendly interface makes monitoring operations intuitive and efficient, reducing the need for extensive training or technical expertise.

DPM50 SENSORS

- ELEMENTAL CARBON
- SULFUR OXIDES
- NITROGEN OXIDES
- CARBON MONOXIDE
- CARBON DIOXIDE
- BAROMETRIC PRESSURE
- AMBIENT TEMPERATURE
- VOLATILE ORGANIC COMPOUNDS
- POLYCYCLIC AROMATIC HYDROCARBONS

- AIR QUALITY
- OXYGEN
- HUMIDITY
- OZONE
- PM1
- PM2.5
- PM4
- PM10