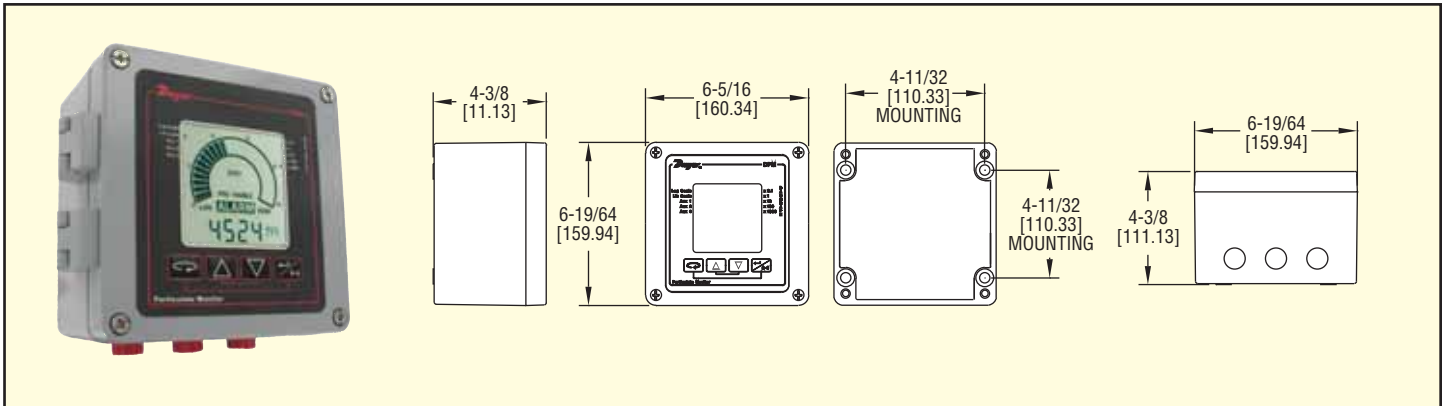




Series
DPM

Particulate Monitor & Control

Real-Time Leak Gauge, Adjustable Alarm Points



The **DPM Particle Monitor** and PMS Particulate Sensor combine to provide a basic baghouse and cartridge filter leak detector designed for general maintenance planning and process protection. It is easy to use and reliable. Leakage is gauged in real-time, on-the-spot, without prior baseline data and without signal tuning. Simply apply power and the general condition of the filter is quickly determined. An alarm point is set by simply moving an indicator up and down the gauge with the convenient, lockable key pad. For more precise alarm setup the large display provides both a logarithmic analog bar graph and an absolute digital readout. The log scale enables the user to observe both the baseline bleed through and the high peaks that are caused by filter cleaning cycles and developing leaks. Observation of both baseline and peaks is essential to setting proper alarms. The digital readout in absolute units ensures correct interpretation of the readings and provides accurate historical comparisons.

The **DPM Particle Monitor** is housed in a rugged cast aluminum enclosure. An LCD displays particulate levels in bar-graph and digital forms. A lockable membrane keypad is provided for setup and adjustment.

Together the **DPM Particle Monitor** and the **PMS Particle Sensor**:

- Prevent false readings from:
 - Moist and conductive dusts
 - Corrosive gases and condensate
 - Dust buildup
- For baghouses, cartridge filters, bin vents, and cyclones
- Protect downstream blowers, oxidizers, HEPAs, etc.
- Keep a clean workplace and be a good neighbor

SPECIFICATIONS

Inputs: From PMS Sensor.

Output Ratings:

Alarm Relays: 2 Form A (SPST) rated 5A @ 240V res. (must provide an 8A (maximum) fuse in series with relay load).

Analog: 4 to 20 mA (Option RC).

Power Requirements: 115 VAC 50/60Hz, 230 VAC 50/60Hz, or 24 VDC.

Power Consumption: 6 Watts Max.

Accuracy: Standard: ±5% of range, Optional: ±1% of range.

Display: LCD.

Display Resolution: Standard: 5 pA, Optional: 0.5 pA.

Memory Backup: For set point storage only.

Temperature Limits: -13 to 160°F (-25 to 70°C).

Weight: 4.5 lbs (2.0 kg)

Enclosure: Cast Aluminum, Weatherproof, NEMA 4X.

Loop Power Supply (Isolated): 17 VDC loop supply provided by DPM control unit for PMS Sensor.

Agency Approvals: CE & CSA.*

Process Control

Model	System Rating	Range	Input Power
DPM-A111	Weatherproof/NEMA 4X	5.0 pA - 5000 pA	115 VAC 50/60Hz
DPM-A112	Weatherproof/NEMA 4X	5.0 pA - 5000 pA	230 VAC 50/60Hz
DPM-A113	Weatherproof/NEMA 4X	5.0 pA - 5000 pA	24 VDC
DPM-A121	Weatherproof/NEMA 4X	0.5 pA - 5000 pA	115 VAC 50/60Hz
DPM-A122	Weatherproof/NEMA 4X	0.5 pA - 5000 pA	230 VAC 50/60Hz
DPM-A123	Weatherproof/NEMA 4X	0.5 pA - 5000 pA	24 VDC
DPM-AHZ111	Intrinsically Safe*	5.0 pA - 5000 pA	115 VAC 50/60Hz
DPM-AHZ112	Intrinsically Safe*	5.0 pA - 5000 pA	230 VAC 50/60Hz
DPM-AHZ113	Intrinsically Safe*	5.0 pA - 5000 pA	24 VDC
DPM-AHZ121	Intrinsically Safe*	0.5 pA - 5000 pA	115 VAC 50/60Hz
DPM-AHZ122	Intrinsically Safe*	0.5 pA - 5000 pA	230 VAC 50/60Hz
DPM-AHZ123	Intrinsically Safe*	0.5 pA - 5000 pA	24 VDC

OPTION

Analog Output (4-20 mA), add **-RC** to the end of the model number

*DPM models listed intrinsically safe are to be used with corresponding intrinsically safe PMS models making an intrinsically safe control loop. The PMS model can then be installed in a hazardous location according to approval ratings listed. The DPM itself is not intrinsically safe and must be installed outside the hazardous location.