PARTICLE MONITOR
PM2500

Particle Detection

STANDARD FEATURES

- Detection of particles down to 1 micron in size
- Includes one remote sensor with option to add more
- Measurement made through quick-replacement clear tubing
- Tubing condition readout (0-100%)
- Multiple analog and digital outputs

OPTIONAL FEATURES

- Up to four remote sensors can be bundled with one monitor
- Auto-collection feature for sample analysis
- Modbus communications
- TracWare software
- Compact remote sensor design for limited space applications

BENEFITS

- Detects particulates down to low ppt levels
- Large backlit readout display
- Lower purchase cost than particle counters
- Easy to install and maintain
- No expensive optical windows to clean or replace

APPLICATIONS

Water Treatment
- Optimize filtration performance

Reverse Osmosis Pretreatment
- Reduce RO membrane fouling
- Reduce SDI testing

Membrane Filtration
- Ensure membrane performance

Boiler/Condensate
- Monitor corrosion product transport

Parts Washing

Food & Beverage

Pharmaceutical

DESCRIPTION

The PM2500 Particle Monitor is an excellent tool for filter monitoring and contaminant detection applications due to its sensitivity and low-maintenance design. Simple to set up and operate, the PM2500 gives you the detection capability of Particle Counters at a lower cost. Using a unique measurement of "Dynamic Light Fluctuation," the Particle Monitor can detect low parts per trillion concentrations of particles down to 1 micron in size. Up to four remote sensors can be connected to the PM2500.

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GENERAL SPECIFICATIONS

Monitor

User Interface:	Backlit liquid crystal display, menu driven functions, keypad interface
Sample Cell Type:	Flow through
Materials Contacting Sample:	Tygon tubing, teflon, glass
Dynamic Range:	1 micron and above
Particle Index Range:	0 - 9,999 PI
Response Time:	< 10 seconds
Display Readout:	Particle index for each sensor, tubing condition (0 - 100%)
Signal Output (PI):	4-20 mA proportional to reading
Signal Diagnostics:	4-20 mA proportional to cleanliness
Communication Protocols:	Modbus RTU (optional)
Enclosure:	Nema 4X, fiberglass reinforced
Power Requirements:	100 VAC, 1A, 60 Hz 220 VAC, 1A, 50 Hz
Operating Temperature:	32° - 120° F (0° - 49° C)
Dimensions:	9.2” W x 11.2” H x 6.3” D (234 mm W x 284 mm H x 160 mm D)
Weight:	8 lbs (3.6 kg)

Remote Sensor

Flow Rate:	75 - 150 mL/min.
Sample Tubing:	1/8” ID, 3/16” OD
Power Requirements:	24 VDC (from monitor)
Output Wiring:	4-conductor twisted shielded pair, 20 AWG (6-conductor with Auto-Sampler)
Operating Temperature:	32° - 120° F (0° - 49° C)

Standard Enclosure (Outdoor Rated)

Enclosure:	Nema 4X, fiberglass reinforced
Dimensions:	9.2” W x 7.2” H x 5” D (234 mm W x 183 mm H x 127 mm D)
Weight:	5 lbs (2.3 kg)

Optional Compact Enclosure (Indoor Only)

Enclosure:	Polycarbonate
Dimensions:	3.13” W x 6.25” H x 4.3” D (80 mm W x 159 mm H x 109 mm D)
Weight:	3 lbs (1.4 kg)

Auto-Sampler (Optional)

Power Requirements:	24 VDC (from monitor)
Hardware:	3-way valve (fitted to standard enclosure)
Sampler Settings:	Threshold reading, delta time, sample collection time (all user definable)
Readout:	Average reading during collection time, time elapsed after collection

One Particle Monitor is capable of accepting up to 4 remote sensors

Indoor rated remote sensor (compact enclosure)