

Continuous Particulate Measurement

Precision Monitoring

- ✓ Improved control over manufacturing processes
- ✓ Minimal maintenance requirement
- ✓ Automatic adherence to environmental regulations
- ✓ Easy and fail-safe access to monitoring data
- ✓ Real-time, reliable performance

Continuous, multi-channel particulate monitoring system employing charge induction sensing for measurement, monitoring, and detection of particulate in stacks, ducts, or pipes. System features provide critical process control, comprehensive alarms, instrument and process diagnostics, EPA compliance, and more.

Technical Summary

Resolution	0.1 pA (Measure), 0.5 pA (Monitor), 5.0 pA (Detect)
Minimum Detection	at least 1.0 mg/m ³
Process Pressure (sensor max.)	100 PSI (6.9 bar)
Process Temperature (Sensor)	-40 °F to 1650 °F (-40 °C to 898 °C)
Ambient Temperature	-40 °F to 158 °F (-40 °C to 70 °C)
Hazardous Areas	Class I Div. I (Zone 0/20)
Power	100-240 VAC (or) 24 VDC
Output	Analog and Discrete (up to 16 each)
Input	Analog and Discrete (up to 16 each)
Particulate Sensor(s)	PS 10-S/HP/XD Types



Features

- Up to 32 Monitoring Points
- Device & Process Diagnostics: NAMUR NE 043/107
- Automatic EPA Self-Tests and QA Log
- Filter Leak Diagnostics
- Meets ASTM D7392, EN 15859
- Advanced Color TFT Graphical Display
- On-Screen Trending (Real Time, Historical, and Comparative)
- Comprehensive, Secure Alarm Management System
- Data Historian, Mirrored to SD Card for Data Redundancy
- Certified Fieldbus Protocols

PM 100 PRO

Graphical User Interface

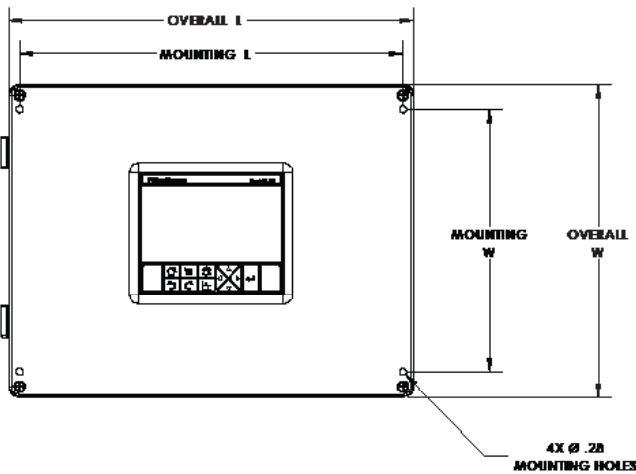
The User Interface consists of a keypad, color display, and status LEDs (green power indicator red/yellow alarm indicator). Upon power up the Home Screen is shown, from which the user can navigate to a desired icon and then press Enter.



Key	Keypad Description	Key	Keypad Description
	Home (Home screen)		Forward (Display next screen)
	Setup (System menus) (Screen specific menus)		Back (Display previous screen)
	Alarms (Alarm screen)		Trends (Trending Screen)
	Up/Down (Move cursor, zoom trends)		Enter (Select current setting) (Toggle trend live/historical)
	Left/Right (Move cursor) (Pan historical trend)		

Mounting Dimensions

(Enclosure Details)



Enclosure	Overall (L x W x D)	Mounting (L x W)	Max Module Width
MEN-C2	13x9x4.4 (330x230x111)	12.2x7.1 (310x180)	8
MEN-C4	15.9x12.3x4.4 (404x313x111)	15x10.3 (382x262)	12
MEN-C6	23.9x12.3x4.9 (607x313x123)	22.8x10.3 (579x262)	20

NEMA 4X Powder Coated Cast Aluminum
(NEMA 4X Stainless Steel Optional)

Compatible Instruments

PM 100 PRO must be paired with compatible Auburn sensors for proper functionality.



PS 10 SERIES

Available: standard, high-performance, and extreme-duty particulate sensors

