

Small remotes for constant monitoring of critical areas

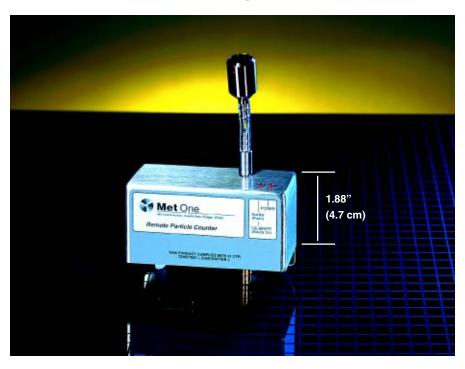
Model R4815/R4915 Remote Airborne Particle Counters

FEATURES

- 0.5 and 5.0 microns
- 1.0 cfm flow rate
- 2 size channels
- RS485 serial communications (R4815)
- 4–20 mA output (R4915)

APPLICATIONS

- Cleanroom Monitoring
- Inert Gas Sampling
- Mini-environment Monitoring



Connecting remote particle counters to your computer (Model R4815) or SCADA (Model R4915) system has never been easier than with Met One's miniature particle counters. These counters can be mounted at many locations around the cleanroom. All you need to provide is a vacuum source, DC power and a communication line.

The Model R4815 uses the standard RS485 serial communications, allowing instrument-to-instrument wiring up to a total length of 4000 feet (1220 m). The counter will respond to simple ASCII command instructions including commands to START count, STOP count, REPORT count, send location number, etc. The information reported includes the status of the counter along with the particle counts in two size ranges. For a graphical or spreadsheet display of data, add on the continuous monitoring features of Particle Vision[®] Online Software.

The Model R4915 uses the industry standard 4–20mA interface. Loop current is driven by voltages between 15 and 30 VDC. The sensor uses an RS485 serial interface for programming count time, hold time, alarm level, alarm delay, and scaling for the 4–20 mA output. The programming is retained through power off and on cycles.

For both models, a user-programmed alarm level can be set for high counts on the first channel. When high counts trigger an alarm, the LED on the counter flashes and an alarm signal is set at the connector. The alarm will automatically reset at the start of the next count cycle. The stainless steel enclosure is compatible with most process environments. There is no fan to disturb airflows, allowing the counters to be placed close to sensitive process areas.







Model R4815/R4915 Remote Particle Counters

SPECIFICATIONS	Size Channels (µm) Flow Rate Flow Control Light Source Coincidence Loss Inlet Pressure Indicators Power Alarm Output Connector Weight	0.5, 5.0 1.0 cfm (28.3 L/min) Critical orifice; requires 18" Hg (450 mbar) vacuum minimum Laser diode 5% at 400,000 particles/ft ³ Ambient to 0.1" Hg vacuum Power and Sensor/Alarm LEDs 6 VDC (±10%) at <125 mA Open collector FET maximum sink current (on) 150 mA; Maximum DC voltage (off) 30 VDC DB-15 (female) 10.7 oz (0.3 kg)
	Tubing Connections	Inlet I.0 cfm, 1/4" I.D. Outlet I/4" I.D.
	Environment	Operating55 to 84°F (12 to 29°C)20 to 95% relative humidity, non-condensingStorage-40 to 160°F (-40 to 70°C)up to 98% relative humidity, non-condensing
	Accessories Included	Isokinetic Probe; DB-15 Connector; Operator's Manual
ORDERING GUIDE	When ordering, specify:	Model R4815 or Model R4915 Scaling for 4-20 mA output (Model R4915)
OPTIONAL ACCESSORIES	Switching Power Supply Power Adapter Wall Plate Power Adapter Vacuum Pump Sample or Vacuum Tubing Particle Vision® Online Software	3.69° (9.4 cm) (9.4 cm) (3.8 c

Specifications are at reference conditions and may change without notice. All trademarks are property of their respective owners. PN705112-12/01





UNITED STATES Corporate Headquarters 481 California Avenue Grants Pass, Oregon 97526 United States Tel 1 541 472 6500 Fax 1 541 479 3057 Toll Free 1 800 866 7889

FRANCE

 Io0 rue Blaise Pascal

 ZI les Mardelles

 93605 Aulnay-sous-Bois Cedex

 France

 Tel
 33 (0) 1 58 03 05 00

 Fax
 33 (0) 1 48 66 46 66

GERMANY Ostwall 30 Lüdinghausen D-59348 Germany Tel 49 (0) 25 91 30 91 Fax 49 (0) 25 91 50 14 UNITED KINGDOM Pegasus House Haddenham Business Park Haddenham Bucks HP17 8LL England Tel 44 (0) 1844 299 336 Fax 44 (0) 1844 299 379

MetOne HYT CON COROSCO

www.particle.com