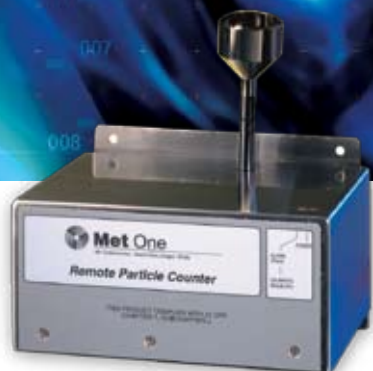# MET ONE R5913/R5915
REMOTE AIRBORNE PARTICLE COUNTERS

Rugged, reliable online monitoring at 1.0 CFM

Features

- Long Life Laser™ technology for superior performance
- 0.3 micron (R5913)
- 0.5 micron (R5915)
- 28.3 LPM (1.0 CFM) flow rate
- 2 size channels
- Stainless steel case
- 4–20 mA output
- Interfaces with Facility Monitoring Software

Applications

- Cleanroom monitoring
- Inert gas sampling
- Loadlock profiling

Easily connect remote particle counters to a SCADA or Facility Monitoring System (FMS) with Met One R5913 and R5915. Mount these small particle counters near critical monitoring areas at multiple locations around the cleanroom. In addition to a compact size, these counters offer the convenience of remote functionality. Simply add a vacuum source and a communication line for unattended operation.

When high counts occur, a user-defined alarm provides notification of exceeded thresholds. The LED counter flashes, setting an alarm signal at the connector. Configure the system to trip the alarm after exceeding a limit a specified number of times. The alarm automatically resets at the start of the next count cycle.

The Met One R5913 and R5915 use breakthrough Long Life Laser technology that extends the average service life of the instrumentation's laser to more than ten years for increased longevity, reliability and performance. The counters' sensors use an RS-485 serial interface for programming count time, hold time, alarm level, alarm delay and scaling for the 4–20 mA output. Power off and on cycles retain any system programming.

For critical environments, the Met One R5913 and R5915 perform reliably for confidence and control in continuous monitoring. Take particle counting to the next step by incorporating these instruments into a Facility Monitoring System. Easily implement a successful FMS with the R5913 and R5915 by using facility monitoring software and system services available from the Hach Ultra Service Team.

www.hachultra.com

HACH ULTRA™

EXCELLENCE IN PROCESS ANALYTICS

Performance Specifications

Size Channels (µm)	R5913	Ch 1/Ch 2	0.3, 0.5
	R5915	Ch 1/Ch 2	0.5, 5.0

Flow Rate 28.3 LPM (1.0 CFM)

Vacuum Level Minimum 450 mbar (18 inches Hg)

Data Output 4–20 mA

Flow Control Critical orifice, requires 450 mbar (18 inches Hg) vacuum minimum

Light Source Laser diode with a 10-year Mean Time to Failure (MTTF)

Coincidence Loss Less than 5% at 14,120 particles/L (400,000 particles/ft^3)

False Count Not more than one count in 5 minutes

Inlet Pressure Ambient to 0.1 inch Hg vacuum

Indicators Power and Sensor/Alarm LEDs

Power 12 to 28 VDC at less than 300 mA

Connector DB-15 (female) for both DC power and data

Dimensions 17.5 w x 11 x 13 d cm (6.9 x 4.3 x 5.1 inches)

Weight 2 kg (4.5 lbs)

Port Sizes 0.64 cm (1/4 inch) I.D. sample inlet

0.64 cm (1/4 inch) I.D. vacuum connection

Environment	Operating	12°C to 29°C (55°F to 84°F)
		20 to 95% relative humidity, non-condensing
	Storage	-40°C to 70°C (-40°F to 160°F)
		up to 98% relative humidity, non-condensing

Accessories Included Isokinetic Probe; DB-15 Connector; Operator Manual

When ordering, specify 0.3 µm (R5913) or 0.5 µm (R5915) minimum size

Optional Accessories Switching Power Supply

Isokinetic Probe

Isokinetic Probe for 28.3 LPM (1.0 CFM)

Wall Plate for Vacuum/DC Power

Sample or Vacuum Tubing

Facility Monitoring Software

CE
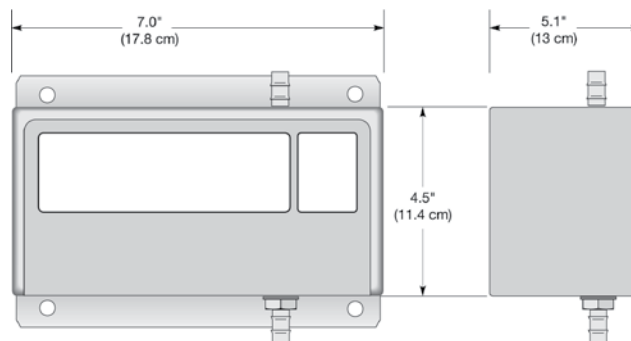
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