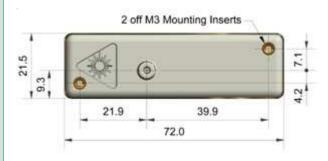
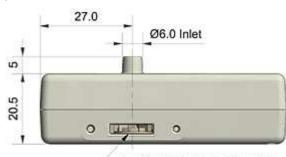
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# **OPC-R1** Particle Monitor

#### Figure 1 OPC-R1 Schematic Diagram





- 3 x 12.7mm Exhaust Aperture

Removable Exhaust Extension

Ø<sub>10.0</sub>

- Reports PM<sub>1</sub>, PM<sub>25</sub>, PM<sub>10</sub> plus histograms
- SPI connection for communication and firmware upgrades (SPI interface not included, order code 000-0SPI-00)
- · PC software supplied
- Removable fan exit adaptor
- Small size and low power consumption
- Configurable to specific applications

# Q

#### MEASUREMENT

Particle range	Spherical equivalent size (based on RI of 1.5)	0.4 to 12.4
Size categorisation	Number of software bins	16
Sampling interval	Histogram period (seconds)	1 to 30
Total flow rate	L/min (typical)	1.6
Max particle count rate	particles/second	10,000
Max coincidence probability	%concentration at 10 <sup>6</sup> particles/L	0.84
	%concentration at 500 particles/L	0.24

#### POWER

95
< 5
to 5.2
: 5000

#### **KEY SPECIFICATIONS**

Digital interface Laser classification Temperature range Humidity range Weight (No data storage) as enclosed housing ℃ % rh (continuous) g SPI Mode 1 Class 1 -10 to 50 0 to 95 (non-condensing) < 30

X

Tel: + 86-755-83289036

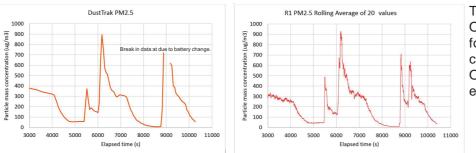
At the end of the product's life, do not dispose of any electronic sensor, component or instrument in the domestic waste, but contact the instrument manufacturer, Alphasense or its distributor for disposal instructions.

NOTE: As applications of use are outside our control, the information provided is given without legal responsibility. Customers should test under their own conditions, to ensure that the sensors are suitable for their own requirements.

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These two graphs track the OPC-R1 and a TSI Dust Trak for three hours. The good correlation shows that the OPC-R1 follows particulate events accurately.

Figure 3 Particle size distribution for broad 5 um alumina (Spherisorb  $^{\text{TM}}$ ) using the OPC-R1 and Alphasense software.

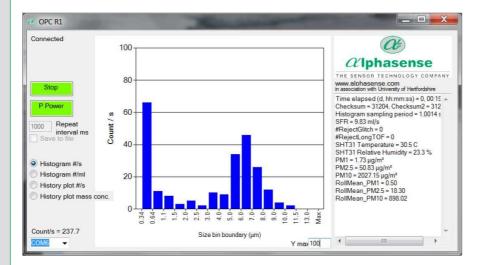


Figure 3 shows the OPC-R1 particle size distribution for the test aerosol.



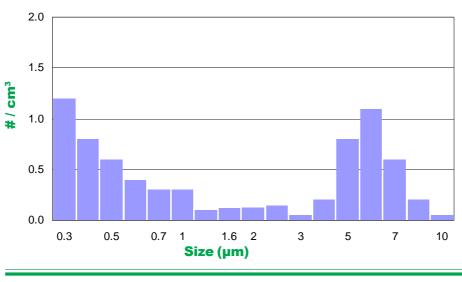


Figure 4 shows the TSI 3330 particle size distribution for the same aerosol, showing a good correlation with Figure 3.

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Specification

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