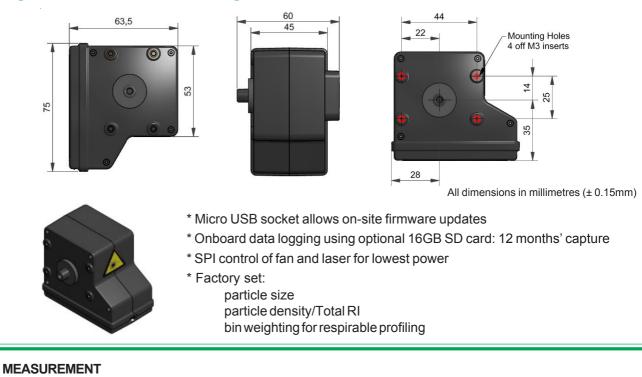
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# **OPC-N2** Particle Monitor

#### Figure 1 OPC-N2 Schematic Diagram



Particle range	Spherical equivalent size (based on RI of 1.5)	0.38 to 17
Size categorisation	Number of software bins	16
Sampling interval	Histogram period (seconds)	1.4 to 10
Total flow rate (typical)	L/min	1.2
Sample flow rate (typical)	mL/min	220
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		

### POWER

Specification

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mA (typical)	175
mA (typical)	95
VDC	4.8 to 5.2
mW for 1ms	< 5000
	mA (typical) VDC

### DATA

Digital interface/connections	Micro USB (progamming), SPI (data)	
Data storage	micro-SD (.CSV format)	16GB

### **KEY SPECIFICATIONS**

Digital interface	SPI (Mode 1), USB	
Laser classification	as enclosed housing	Class 1
Temperature range	°C	-10 to 50
Humidity range	% rh (continuous)	0 to 99 (non-condensing)
Weight	g	< 105

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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.

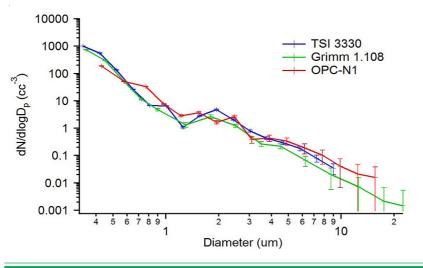
Add: 16/F, Bldg. #3, Zhongke Mansion, No.1 Hi-Tech S. Rd, Hi-Tech Park South, Shenzhen, Guangdong, 518067 P.R.China

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# **OPC-N2 Performance Data**

### Figure 2 Particle size derivative comparison



The OPC correlates well when validated with Grimm and TSI instruments.

## Figure 3 Particle size distribution for 5 mm alumina (Spherisorb) as displayed on PC, direct from the OPC-N2.

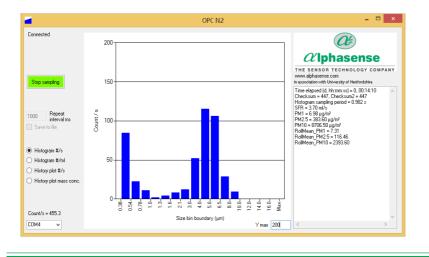


Figure 3 shows the OPC-N2 particle size distribution for a calibration aerosol.

#### Figure 4 TSI 3300 Particle size count for 5um Alumina (Spherisorb)

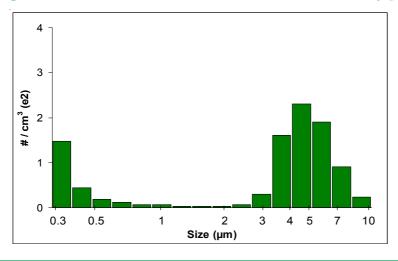


Figure 4 shows the TSI 3300 displayed particle size distribution for the same calibration aerosol, as measured by University of Hertfordshire.

Calculated PM from particle size includes assumptions about particle density and refractive index which will vary with application.

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