



## TECHNICAL INFORMATION RELEASE DECEMBER 2018

---

### ALPHASENSE PARTICLE COUNTER OPC-N RANGE PRODUCT UPDATE

**As of January 2019, Alphasense will cease manufacture of the OPC-N2 particle counter in favour of the improved OPC-N3 model.**

#### **Improvements to design:**

- Low-end resolution, measuring down to 0.35  $\mu\text{m}$  with 100% capture, and down to 0.3  $\mu\text{m}$  with 50% capture
- Range is now up to 40  $\mu\text{m}$  with 24 sizing bins, previously 16 bins. This extended range means it is possible to measure and speciate pollen and biophages as well as combustion and other particles
- Control of the fan speed with automatic flow correction, reducing power when needed and improving long term stability in applications where high levels of pollution are present.
- Fluid dynamics: our anti-static housing and improved laminar flow means that it stays cleaner in polluting urban environments
- PM<sub>1</sub>, PM<sub>2.5</sub> and PM<sub>10</sub> - and now PM<sub>4.25</sub> as an alternative.
- New optional flow profiler (patent pending) creates a sheath of clean air so very high particle concentrations can be measured without damaging the OPC
- Selection of 9 density profiles that are tuned to specific applications. You can also use a custom number-to-mass profile for your unique application. We will continue to develop these profiles which can be easily downloaded.

#### **Unchanged:**

- The same dimensions and connectors, no need to change your housings, gas connections or cabling.
- The same power and SPI communications, no need to change your electronics.
- The same time-of-flight (patent pending) correction for flow rate correction.
- The same price
- The N3 is now available

#### **Software update:**

A simple Application Note explains the changes to the Start-up commands and accessing the extra sizing bins.

Alphasense will ship only OPC-N3 from January 2019. If you are an existing user of the OPC-N2 and have any questions or require technical support, please contact Alphasense by email [technical@alphasense.com](mailto:technical@alphasense.com) or telephone +44 (0)1376 556700

**For Immediate Release**

---