



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 μm with 100% capture, and down to 0.3 μm with 50% capture
- Range is now up to 40 μm 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
- PM₁, PM_{2.5} and PM₁₀ - and now PM_{4.25} 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 pin outs, 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 AAN-701 explains the changes to the SPI protocol, 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 or

For Immediate Release

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