

We are proud to be the UK distributor of Palas

Palas has been developing aerosol technologies including dust monitors, nanoparticle instruments, and aerosol generators for over 40 years. Cura Terra partnered with Palas very recently, at the beginning of 2025. With the addition of Palas' impressive MCERTS certified PM₁₀ and PM_{2.5} monitors to our range, Cura Terra is now able to offer full, comprehensive QAL1 / MCERTS certified real-time fine dust monitors for air quality monitoring, scientific research and regulatory monitoring applications.

Featured instruments

Fidas 200

The Fidas 200 is Palas' EN-16450 and UK MCERTS approved fine dust monitor for simultaneous measurement of PM₁₀ and PM_{2.5}, plus PM₄, PM₁₀, TSP, CN, particle size distribution, ambient pressure, ambient temperature, and rel. ambient humidity. The Fidas 200 was explicitly designed for environmental regulatory monitoring and is optimised for reliability and high data capture rates in the field.

Fidas Smart 100

The Fidas Smart 100 is Palas' most advanced and compact instrument for air quality measurements. This portable unit weighs less than 4kg and includes a weatherproof enclosure, with an internal data logger and communications options including WiFi and 4G. This combined with the capability to measure PM₁, PM_{2.5}, PM₄, PM₁₀, TSP, CN, particle size distribution, and meteorological parameters simultaneously (depending on configuration), makes the Fidas Smart 100 ideal for a wide range of mobile and semi-permanent deployments.



Fidas 200



Fidas Smart 100



AQ Guard
Smart 2000

AQ Guard Smart 1000 (MCERTS)

This advanced air quality analyser is engineered for reliable monitoring of fine particulate matter (PM₁, PM_{2.5}, PM₄, PM₁₀, and TSP) in the most demanding environmental conditions. It offers quick and easy installation, long-term 24/7 stability, and low-maintenance operation, ensuring dependable performance at all times. Capable of simultaneous measurement of multiple particle fractions along with total particle count (CN), it delivers near-reference standard accuracy, even in environments with high dust concentrations. With a heated inlet for enhanced reliability, flexible communication and data transmission, and real-time access to high-resolution data, this analyser supports versatile applications across industries and research fields. Meeting both national and international standards, including ISO 21501-1 and MCERTS (PM₁₀ & PM_{2.5}), it provides trusted results for compliance and advanced analysis. Additionally, the option of integrated noise monitoring enables combined assessment of air quality and sound levels—empowering smarter, data-driven strategies for urban planning and transportation.



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AQ Guard Smart 2000

The air quality analyser is designed for precise monitoring of nanoparticles (UFP number concentration, average diameter, LDSA) in even the most demanding environmental conditions. It offers simple and reliable measurement of UFP concentrations from as low as 10 nm, handling high particle counts up to 10,000,000 particles/cm³. With quick installation, long-term 24/7 stability, and low-maintenance operation requiring no working fluids, this analyser ensures dependable results. Its flexible communication and data transmission options provide real-time access to high-resolution data, while versatile application capabilities make it suitable for diverse environments. Additionally, the option of integrated noise monitoring allows simultaneous assessment of air quality and sound levels—empowering data-driven urban planning and transportation strategies.



AQ Guard
Smart 1000

