**Air quality monitors particulate**

**Palas FIDAS 200 ambient particulate monitor**

***Description***

The FIDAS 200 is the flagship model developed for compliance monitoring of PM10 and PM2.5 in accordance with EU and UK legislation. The FIDAS 200 and 200S are certified to the highest level by TUV and MCERTS and to DEFRA's UK PM Pollution Climate standard. The FIDAS passed these tests with one of the lowest uncertainties of any approved PM monitor. With the lowest running costs of any approved monitor and providing more value for money due to its simultaneous measurements of TSP, PM10, PM4, PM2.5, PM1 and Pn plus a full size distribution for particles between 0.18 and 18 microns with 32 channels per decade resolution.

***Specification***

|  |  |
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| **Interfaces** | USB, Ethernet, RS232/485, Wi-Fi |
| **Measurement range (size)** | 0.18 - 100 µm (3 measuring ranges) |
| **Size channels** | 64 (32/decade) |
| **Measuring principle** | Optical light-scattering |
| **Measurement range (number CN)** | 0 - 20000 particles/cm3 |
| **Time resolution** | 1 s - 24 h, 15 min in type approved operation |
| **Volume flow** | 4.8 l/min ≙ 0.3 m3 /h |
| **Data acquisition** | Digital, 20 MHz processor, 256 raw data channels |
| **Power consumption** | Approx. 200 W |
| **User interface** | Touchscreen, 800 • 480 Pixel, 7" |
| **Power supply** | 115 - 230 V, 50 - 60 Hz |
| **Housing** | Table housing, optionally with mounting brackets for rack-mounting |
| **Dimensions** | 450 • 320 • 180.5 mm (H • W • D), 19" |
| **Weight** | 9.3 kg (control unit only) |
| **Operating system** | Windows embedded |
| **Data logger storage** | 4 GB |
| **Software** | PDAnalyze Fidas® |
| **Aerosol conditioning** | Thermal with IADS |
| **Measurement range (mass)** | 0 - 10000 µg/m3 |
| **Reported data** | PM1, PM2.5, PM4, PM10, TSP, CN, particle size distribution, pressure, temperature, humidity |
| **Installation conditions** | +5 – +40 °C |
| **Sampling head** | Sigma-2 |