**Air quality monitors particulate**

**Palas FIDAS Frog**

***Description***

FIDAS FROG represents a major leap forward for dust monitors with a host of unique features. Evolving from the same technology that saw the FIDAS become Europe's leading PM monitoring technology the FROG is battery operated, driven from a Windows TM tablet PC and advanced software providing a host of features which place it in a class of its own. Ideal for indoor air studies, industrial hygiene, in vehicle studies etc.

***Specification***

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| **Interfaces** | USB, Ethernet by USB-adapter, WiFi access point |
| **Measurement range (size)** | 0.18 – 40 µm (2 measuring ranges) |
| **Size channels** | 32/decade, 256 raw data channels |
| **Measuring principle** | Optical light scattering of single particles |
| **Measurement range (number CN)** | 0 – 20,000,000 particles/l |
| **Time resolution** | 1 s – 24 h |
| **Volume flow** | 1.4 l/min |
| **Data acquisition** | Digital, 20 MHz processor, 256 raw data channels |
| **Light source** | LED |
| **Power consumption** | 13 W |
| **User interface** | Touchscreen, 1280 • 800 pixel, 8'' |
| **Power supply** | 115 – 230 V, 50 – 60 Hz |
| **Housing** | Synthetic housing |
| **Dimensions** | 100 • 240 • 150 mm (H • W • D) |
| **Weight** | Approx. 2.1 kg (0.4 kg operating panel, 1.7 kg measuring unit) |
| **Operating system** | Windows 10 |
| **Data logger storage** | Approx. 16 GB, extendable by micro-SD |
| **Battery operation** | 8 h |
| **Measurement range (mass)** | 0 – 100 mg/m3 (depending on the composition of the aerosol) |
| **Reported data** | PM1, PM2.5, PM4, PM10, TSP, CN, particle size distribution |
| **Installation conditions** | 0 – 40 °C |