



AQ Guard Smart 1000 是紧凑且云互联的空气质量监测设备。适应智慧城市环境下对室外空气监测的网格密度需求，同时保持了与环保及公共健康监管监测的高度可比性。

优势

- Quick and easy installation
- Long-term stability (24/7) and low maintenance
- Flexibility in communication and data transmission
- Reliable measurements (near-reference standard for particles)
- Simultaneous measurement of PM₁, PM_{2.5}, PM₄, PM₁₀, TSP, C_N, CO₂
- Versatile application possibilities even in demanding environments
- Suitable for high dust concentrations
- Access to data in real time and with high temporal resolution

特点

- 支持现场校准(粒径分辨率和流量)
- 支持GPRS / 3G / 4G / Ethernet / Wi-Fi 通信，可选: LoRaWAN
- 技术基于获认证的Fidas® 200 系列设备
- 可通过第三方供应商的设备、测量技术及传感器扩展
- 基于Palas Cloud ("MyAtmosphere-ready") 的数据可视化
- 每秒测量数据采集

APPLICATIONS

- 城市空气质量监测
- 智能城市项目
- 露天采矿和管控填埋场
- 污染物形成和扩散
- 建筑工地和环境整治区
- 工厂排放监测
- 公路、铁路及港口的颗粒物排放监测
- 风险管控区（自然及人为活动）

DATASHEET

测量原理	Optical light scattering at single particles	报告数据	PM1, PM2,5, PM4, PM10, TSP, CN, CO ₂ ; particle size distribution, ambient pressure, ambient temperature, rel. ambient humidity
测量范围(数量浓度)	0 – 20,000 particles/cm ³	测量范围(粒径)	0.175 – 20 µm
测量范围(质量)	0 – 100 mg/m ³ (depending on the composition of the aerosol)	Size channels	64 (32/decade)
Time resolution	1 min, moving average 1 min (MyAtmosphere), every second via internal protocols	接口	USB, Ethernet (LAN), Wi-Fi, 3G/4G via Modem, optional: LoRaWAN
Protocols	ASCII, MODBUS, UDP	Light source	Long term stable LED
电源	Supplied power supply: 12 V	Power consumption	Standard operation: 1.2 A (1.7 A with additional heating)
Installation conditions	-20 – +50 °C	Dimensions	530 • 270 • 208 mm (H • W • D)
重量	Approx. 6 kg	Special features	Heated inlet, mast / tripod mount
Data Management	Prepared for connection to the Palas Cloud MyAtmosphere ("MyAtmosphere-ready"); Internet access and separate registration required. The MyAtmosphere terms of use apply.		

标准和证书

ISO 21501-1