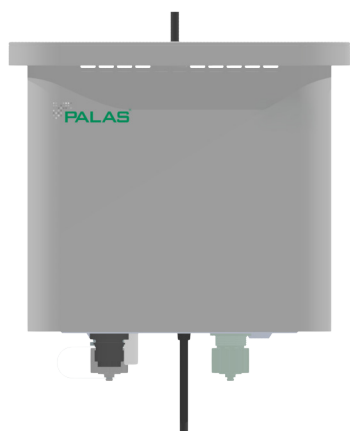


AQ GUARD SMART SYSTEM WITH MULTIGAS EXTENSION



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

应用领域

- 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）

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

技术数据

测量原理	Optical light scattering at single particles
报告数据	PM ₁ , PM _{2.5} , PM ₄ , PM ₁₀ , 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)	0.178 – 17.8 µm
测量范围(质量)	0 – 100 mg/m ³ (depending on the composition of the aerosol)
体积流量	1 l/min ± 1,5% (-20 - +50°C), time-of-flight volume flow control, usable up to altitudes of 5,000 m a.s.l.
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”)

标准和证书

ISO 21501-1, MCERTS (Sira MC 220412/01)