



Pulvis

Particulate Matter Monitor

FD-PM100



Precision outdoor station for measuring PM_1 , $PM_{2.5}$, PM_4 , and PM_{10} concentrations. Features high accuracy, maintenance-free operation, stainless steel housing, air sample conditioning, and real-time data transmission.

Features

- › Real-time measurement of fractions PM_1 , $PM_{2.5}$, PM_4 , and PM_{10}
- › High accuracy using OPC technology
- › Resistance to harsh weather conditions
- › Remote access via wired or wireless network
- › Maintenance-free operation and easy integration with telemetry systems
- › Continuous 24/7/365 operation with automatic data logging

Applications

- › Urban air quality monitoring
- › Smart City and ITS Projects
- › Industrial zones
- › Background dust levels in protected areas
- › Scientific research and educational projects



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Particulate Matter

Measurement method	Optical Particle Counter (OPC) laser 660 nm
Fractions	PM ₁ PM _{2.5} PM ₄ PM ₁₀
Range	0...2000 µg/m ³
Resolution	1 µg/m ³
Accuracy	5 µg/m ³
Sample Inlet	omni-directional heated inlet

Communication & Data Handling

Communication Interfaces	RS232 (2) RS485 (2) Ethernet (2) Wi-Fi (RP-SMA female connector) Bluetooth (RP-SMA female connector) GSM/LTE (FME male connector) GPS (SMA female connector) USB-A
Control Outputs	6 programmable output channels
Data storage	internal memory SD card USB



Operating System

Linux

OpenWRT

Power Supply

Supply voltage

230 VAC or 12 VDC

Power consumption

20 W with heating inlet
4.5 W without heating

Surge protection

Yes

Environmental

Operating temperature range

-35...60 °C

Operating humidity range

<99% RH (non-condensing)

Compliance

CE Declaration

Physical

Ingress Protection (IP)

IP65

Dimensions

670 × 300 × 215 [mm]

Weight

11.7 kg

