



FAR DATA

**Pulvis**

**Particulate Matter Monitor**

**FD-PM100**



Precision outdoor station for measuring PM<sub>1</sub>, PM<sub>2.5</sub>, PM<sub>4</sub>, and PM<sub>10</sub> 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<sub>1</sub>, PM<sub>2.5</sub>, PM<sub>4</sub>, and PM<sub>10</sub>
- › High accuracy using OPC technology
- › Resistance to harsh weather conditions
- › Remote data 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 <sub>1</sub> PM <sub>2.5</sub> PM <sub>4</sub> PM <sub>10</sub>
Range	0...2000 µg/m <sup>3</sup>
Resolution	1 µg/m <sup>3</sup>
Accuracy	5 µg/m <sup>3</sup>
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



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### 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 -30...50 °C

Operating humidity range <99% RH (non-condensing)

Compliance CE Declaration

### Physical

Ingress Protection (IP) IP66

Dimensions 670 × 300 × 215 [mm]

Weight 11.7 kg

