

Dust Concentration Sensor

DIG-PM01-12V

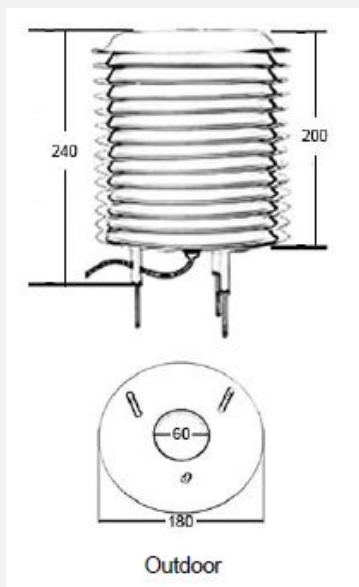
Description

Dust sensor uses laser scattering principle to detect the presence of dust particles concentration in the air. It can detect 1.0um, 2.5 um and 10.0 um particles with great accuracy and stability.

Notable features are:

- High precision, fast response.
- No moving parts, less maintenance.
- Excellent Stability.
- Outdoor and Indoor applications

Dimensions



All units in mm.

Electrical Connections

Cable	RS485
Red	V+
Yellow	RS485A
Black/Green	V-
Blue	RS485B

Technical Specifications

Measured Variable	Range
Sampling Object	1.0, 2.5 and 10 μm
Range	0-1000 $\mu\text{g}/\text{m}^3$
Supply	12-24VDC
Accuracy	3% FS
Power	<50mA@24V
Warm Up Time	3 min
Temperature Drift	<0.2%FS/ $^{\circ}\text{C}$
Response time	<90s
Operating Environment	0-80 $^{\circ}\text{C}$ (<0.6MPa)
Main Material	ABS
Protection	IP67
Output	MODBUS-RTU/RS485