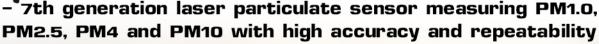
WNDS-01-75-5 DC



Wireless Network Dust Sensor PM1.0 PM2.5 PM10







- Digital temperature, humidity and barometric, pressure sensor
- 2.4GHz WiFi communication, 4G LTE, LoRa (special order)
- Solar powered model available for remote locations incl. MPPT charger and LiFePO4 batteries



- AP mode for easy setup
- just select your WiFi station name and enter your KEY
- Integrated Li-Ion battery backup and power monitor for enhanced reliability



Multi-API compatible with open architecture supporting
MQTT and web protocols



- Free web and mobile applications for data visualization
- Free unlimted data storage and history
- Measurement 3 min update cycle
- MCERTS certified European Air Quality Standard DIN EN 15267
- Outdoor enclosure
- 1 year warranty





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Features

German air pressure sensor and Swiss fine dust sensor with MCERTS, certification according to European Air Quality Standard DIN EN 15267 Certificate No: Sira MC 200350/00

Digital laser sensor

Measurement output: PM1.0, 2.5, 4.0, PM10

Range: 0.0-999.9 µg/m3 Particle size: 0.3 to 10µm Resolution: 0.3 µg/m3 Response time: 10s

Relative error: max. ±15% and ±10µg/m3 @ 25°C and 50%RH

Digital temperature & humidity sensor:

Accuracy: ±2% RH, ±0.5°C Resolution: 0.1%RH, 0.1°C Repeatability: ±1%RH, ±0.2°C

Digital barometric pressure sensor:

Operation range (full accuracy): Pressure: 300...1100 hPa, Temperature: -40...85°C

Absolute accuracy (Temp. @ 0...+65°C): ~ ±1 hPa

Relative accuracy p = 700...900hPa (Temp. @ +25...+40°C): ± 0.12 hPa (typical) equivalent to ± 1 m

Solar 4G model options

Solar panel: - Model A: 30W - Model B: 50W

Rechargeable battery: LiFePO4 Capacity: (A) 10Ah or (B) 20Ah Network: integrated 4G LTE WiFi AP

Solar charger: 20A MPPT

Enclosure: steel with roof (outdoor)

Size excl. solar panel: (A): 300x445x160 mm (B): 400x570x200 mm Weight: (A): 15kg, (B): 20kg

Network protocol:

TCP/IP communication (HTTP/HTTPS/MQTT) WiFi: IEEE 802.11 b/g/n with built-in antenna

Operating mode:

Network sensor with 3 min update cycle Free cloud service and Android app

General device information:

Operating temperature: -10 to +50°C

Operating humidity range: 0-95%RH (non-condensing)

Air pressure: 86KPa to 110KPa

Service life battery: 8,000h @ 25°C, 6,000h @ 35°C

Service life particulate sensor: > 3 years

Outdoor enclosure

Conformity / standards:

- MCERTS certified (European Air Quality Standard DIN EN15267

- CE/FCC/RoHS compliant

Warranty: 1 year