

CO2/PM2.5/PM10

WSS-03



Overview:

WSS-03 is a RS485 Air Quality sensor. It can monitor CO₂, PM_{2.5} and PM₁₀ at the same time.

WSS-03 uses weather proof shield which can make sure the sensors are well protected against UV & radiation.

WSS-03 is designed to support the Dragino Weather station solution. Users only need to connect WSS-03 RS485 interface to WSC1-L. The weather station main processor WSC1-L can detect and upload the environment CO₂, PM_{2.5} and PM₁₀ to the IoT Server via wireless LoRaWAN protocol.

Features:

- RS485 CO₂, PM_{2.5}, PM₁₀ sensor
- Laser Beam Scattering to PM_{2.5} and PM₁₀
- NDIR to measure CO₂ with Internal Temperature Compensation

Specification:

- CO₂ Range: 0 ~ 5000ppm, accuracy: $\pm 3\%F \cdot S$ (25 °C)
- CO₂ resolution: 1ppm
- PM_{2.5}/PM₁₀ Range: 0 ~ 1000 $\mu\text{g}/\text{m}^3$, accuracy $\pm 3\%F \cdot S$ (25 °C)
- PM_{2.5}/PM₁₀ resolution: 1 $\mu\text{g}/\text{m}^3$
- Input Power: DC 7 ~ 24
- Preheat time: 3min
- Interface: RS485
- Working Temperature:
CO₂: 0 °C ~ 50 °C;
PM_{2.5}/PM₁₀: -30 ~ 50 °C.
- Working Humidity:
PM_{2.5}/PM₁₀: 15 ~ 80%RH (no dewing),
CO₂: 0 ~ 95%RH.
- Power Consumption: 50mA@ 12v.

Order Part #- WSS-03

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