

Fixed Particle Counter



SG100-WH-PM

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Product Overview

SG100-WH-PM is a fixed particle counter. It supports 24-hour online operation. Using Laser principle sensor, factory calibrated with high accuracy. It provides RS485 output and optional LoRa wireless transmission, which can be connected with control panel, PC. Its data supports to be uploaded to cloud for remote access. It supports magnetic control which is safe and easy to do settings.



Product Feature

- Factory calibrated laser sensor, high accuracy and no need regular calibration during the lifetime.
- Durable and corrosion resistance aluminum casing.
- Standard RS485 Modbus signal output, optional LoRa output.
- Standard mounting bracket for quick site installation.
- Remote firmware upgrading function.
- Integrate particle counter and optional temperature & humidity on one unit.



Technical parameters

Detection method:	diffusion
Detection parameter:	PM2.5, PM10, optional temperature, humidity
Unitr:	ug/m3, °C, %RH
Resolution:	1ug/m3, 0.1°C, 0.1%RH
Effective range of PM:	0~500ug/m3
Maximum range of PM:	1000ug/m3
Single response time:	<1s
Average response time:	≤10s
Working temperature:	-10~55°C
Working humidity:	10~95%RH (no condensation)
Display:	1.21 inch OLED, resolution 160*64
Output:	RS485, Optional LoRa
Working voltage:	12~30VDC
Inlet thread size:	NPT3/4
Installation method:	Wall-mounted
Weight :	1kg without mounting bracket
Casing material:	die-cast aluminum
Dimensions:	205x129x76mm (without mounting bracket)