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Product Specifications

Environmental Monitoring Sensor
HD-S70



Overview:

HD-S70 is one-piece shutter can be widely used in environmental detection, integrating noise collection, PM2.5 and PM10, temperature and humidity, atmospheric pressure, and light. HD-S70 have the light collection module adopts a high-sensitivity photosensitive probe, and the light intensity range is 0~200,000 Lux.

Benefits:

- This one-piece shutter can be widely used in environmental detection
- integrating noise collection
- 5 and PM10
- It measures the temperature and humidity, atmospheric pressure, and light.



Features:

- This product is small in size, light in weight, made of high-quality anti-ultraviolet materials, long service life, high-sensitivity probe, stable signal, high precision. The key components adopt imported components, which are stable and reliable, and have the characteristics of wide measurement range, good linearity, good waterproof performance, convenient use, easy installation, and long transmission distance.
- Noise collection, accurate measurement, the range is as high as 30 dB~120 dB.
- 5 and PM10 are collected at the same time, range: 0-1000 ug/m3, resolution 1ug/m3, unique dual-frequency data collection and automatic calibration technology, consistency can reach ±10%.
- HD-S70 Measure the environmental temperature and humidity, the measuring unit is imported from Switzerland, the measurement is accurate, and the range is -40~120 degrees.
- Wide range 0-120 Kpa air pressure range, applicable to various altitudes.
- The light collection module adopts a high-sensitivity photosensitive probe, and the light intensity range is 0~200,000 Lux.
- HD-S70 use dedicated 485 circuit, stable communication, 10~30V wide voltage range power supply.

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Specification:

DC power supply (default)	10-30VDC	
Maximum power consumption	RS485 output	0.8W
Precision of S70	Temperature	±3%RH(60%RH,25℃)
	Humidity	±0.5℃（25℃）
	Light intensity	±7%（25℃）
	Atmospheric pressure	±0.15Kpa@25℃ 75Kpa
	Noise	±3db
	PM10 PM2.5	±10%（25℃）
Range	Humidity	0%RH~99%RH
	Temperature	-40℃~+120℃
	Light intensity	0~20万Lux
	Atmospheric pressure	0-120 Kpa
	Noise	30dB~120dB
	PM10 PM2.5	0-1000 ug/m3
Long-term stability of S70	Temperature	≤0.1℃/y
	Humidity	≤1%/y
	Light intensity	≤5%/y
	Atmospheric pressure	-0.1Kpa/y
	Noise	≤3db/y
	PM10 PM2.5	≤1%/y

Response time	Humidity & Temperature	≤1s
	Light intensity	≤0.1s
	Atmospheric pressure	≤1s
	Noise	≤1s
	PM10 PM2.5	≤90S
Output signal	RS485 output	RS485(Standard Modbus communication protocol)