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Product Specifications

Environmental Monitoring Sensor
HD-S90



Overview:

HD-S90 is all-in-one weather station can be widely used in environmental detection, integrating wind speed, wind direction, temperature and humidity, noise collection, PM2.5 and PM10, atmospheric pressure, and lights. Equipment with built-in electronic compass, no direction requirements during installation, horizontal installation. Measuring the environmental temperature and humidity, the measuring unit is imported from Switzerland, and the measurement is accurate.

Benefits:

- HD-S90 wind direction.
- It measure temperature and humidity.
- HD-S90 is integrating wind speed.
- 5 and PM10, atmospheric pressure, and light’s.



Features:

- This product is small in size and light in weight. It is made of high-quality anti-ultraviolet materials and has a long service life. HD-S90is uses a high-sensitivity probe with stable signal and high accuracy. 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.
- It adopts an integrated design with multiple collection devices and is easy to install.
- Wind speed and direction are measured by ultrasonic principle, no start-up wind speed limit, zero wind speed work, no angle limit, 360° omni-directional, wind speed and wind direction data can be obtained at the same time.
- Noise collection, accurate measurement, the range is as high as 30 dB~120dB.PM2.5 and PM10
- HD-S90 simultaneous acquisition, range: 0-1000 ug/m3, resolution 1ug/m3, unique dual-frequency data acquisition and automatic calibration technology, consistency can reach ±10%.
- Measuring the environmental temperature and humidity, the measuring unit is imported from Switzerland, and the measurement is accurate.
- Wide range 0-120 Kpa air pressure range, applicable to various altitudes.
- Use dedicated 485 circuits, stable communication.
- HD-S90 is equipment with built-in electronic compass, no direction requirements during installation, horizontal installation.

Specification:

DC power supply(default)	10-30VDC	
Maximum powerconsumption of HD-S90	RS485 output	1.2W
Precision of HD-S90	Wind speed	±(0.2m/s±0.02*v)(v is thetrue wind speed)
	Wind direction	±3°
	Humidity	±3%RH(60%RH,25℃)
	Temperature	±0.5℃（25℃)
	Atmospheric pressure	±0.15Kpa@25℃ 75Kpa