

HONDE TECHNOLOGY CO.,LTD

Mini Five-parameter micro meteorograph weather station

(Temperature and humidity + atmospheric pressure + ultrasonic wind speed+ direction)



HD-WSMM-05

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1. Product introduce

HD-WSMM-05 five-element micro-meteorological instrument is an instrument developed by our company for monitoring meteorological parameters in multiple fields. The equipment innovatively implements the five meteorological standard parameters (temperature, relative humidity, atmospheric pressure, wind speed and wind direction) through a highly integrated structure, which can realize 24-hour continuous online monitoring of outdoor meteorological parameters through digital communication. The interface outputs five parameters to the user at once.

2. Application field

The five-element micro-meteorological instrument can be applied to the monitoring of urban grid environment, smart street lamps, wind farms, scenic environment monitoring, agricultural meteorology, hydraulic meteorology, power environment, highway meteorological monitoring, etc. place.

3. Product features

1. Standard configuration to monitor five parameters such as temperature, relative humidity, atmospheric pressure, rainfall, wind speed, wind direction, RS485 communication, MODBUS protocol communication (customizable protocol);
2. High precision and reliable performance, suitable for outdoor weather harsh environment fields;
3. Realize parameter collection, optional extended LORA, GPRS, 4G and other wireless methods, realize automatic data upload to the network platform, and real-time view data on the PC.
4. Real-time monitoring of meteorological environment data, low cost, suitable for grid layout;
5. Small size, modular design, flexible layout;
6. Data acquisition adopts 32-bit high-speed processing chip, which is stable and anti-interference.
7. It can be extended to form a 10-element weather station with sensors such as wind speed, wind direction, ground temperature, ground humidity, and others.

4. Product parameters

Parameters	Measure range	Resolution	Accuracy
Temperature	-40-60°C	0.01°C	±0.3°C (@25°C)
Humidity	0-100%RH	0.01%RH	±3%RH (0-90%RH)
Air pressure	500-1100hPa	0.1hpa	±0.5hpa (25°C, 950-1100hPa)
Wind speed	0-40m/s	0.01m/s	±(0.5+0.05V) M/S
Wind direction	0-360°	0.1°	±5° (<10M/S)

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customizable	Sunshine, radiation, AQI six parameters (carbon monoxide, nitrogen dioxide, sulfur dioxide, ozone, PM2.5, PM10)
Technical parameter	
Single output	RS485 communication, Modbus communication protocol(0-5V, 0-10V, 4-20mA can be custom made)
Power supply	DC9-24V
Fixed way	1. Sleeve fixed (Default) 2. Fixing flange or adapter plate can be chsooen
Power consumption	<10mA@12V
Shell material	ASA engineering plastics (anti-ultraviolet, anti-weathering and anti-corrosion, no discoloration per year)
Protection class	IP65

5. Product Size

