



NANOAI TECHNOLOGY PRIVATE LIMITED

CIN: U32309UR2020PTC011244

GST: 05AAHCN0656P1Z3

FF-08, Omaxe CP, Beta-II, Greater Noida 201310, IN

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AWS WeatherSonic-XI Compact Weather Station

Overview

WeatherSonic XI is a weather station integrated with multiple high accuracy sensors. NanoAI's expertise as the Indian leading weather station provider, Wind measurement of the sensor is based on our ultrasonic technology, is of a robust, high strength construction designed to withstand installation and use with no fear of the damage commonly experienced with more fragile cups/vane weather station. Ideal for applications that demand economic weather sensing. Without the need for expensive on-site calibration or maintenance and with a corrosion free exterior, WeatherSonic XI is maintenance free, quick and easy to install.

WeatherSonic XI can realize simultaneous measurement of multi-parameters: atmospheric temperature, atmospheric humidity, wind speed, wind direction, air pressure and precipitation. Precipitation is detected by 24G radar, which can rapidly detect precipitation and its intensity. With optional GPS and electronic module, true wind, longitude and moving velocity can be accurately obtained

Features

- Robust design, easy to install, 24 hours continuous monitoring
- Without moving parts, whole system is free of maintenance
- MODBUS communication protocol, standard RS485/RS232 output
- Radar precipitation can accurately measure amount of precipitation and reflect beginning and ending of raining.

A radar sensor inside acquires the rain quantity intensity, and distinguishes between rain & snow

A sensor can detect the Solar Radiation.

The wind speed and direction are detected by means of an ultrasonic based measurement

A MEMS sensor inside measures Temperature, humidity, pressure.

All measurements are outputted by RS232, RS485 or SDI-12





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Specifications

| | | | | |
|---|------------------------------|----------------|----------|------------|
| Model | WeatherSonic XI | | | |
| Signal Output | RS232 or RS485 or SDI-12 | | | |
| Power Supply | 7-24VDC | | | |
| Data Output | 1 per second | | | |
| Power Consumption | 125mA @12V | | | |
| Material of Body | ASA | | | |
| Communication Protocol | Modbus or NMEA-018 or SDI-12 | | | |
| Dimension | Ø144 * 248 mm | | | |
| Operating Temperature | -40°C - +70°C | | | |
| Operating Humidity | 0 - 100% | | | |
| | Principle | Range | Accuracy | Resolution |
| Wind Speed | Ultrasonic | 0-70m/s | ±3% | 0.1m/s |
| Wind Direction | Ultrasonic | 0-359° | <3° | 1° |
| Air Temperature | MEMS sensor | -40°C - +80°C | ±0.5°C | 0.1°C |
| Air Humidity | MEMS sensor | 0-100% | ±2% | 0.1% |
| Air Pressure | MEMS sensor | 150-1100hPa | ±1 hPa | 0.1hPa |
| Precipitation (Type:Rain/Hail/Snow; Intensity:Rain) | Radar | 0-200mm/hr | ±10% | 0.01mm |
| Solar Radiation | Photo Diode | 0 to 2000watts | ±5% | 1 watt |

Note: All parameters needed should be decided when you place the order. Final price depends on configuration.

Dimension

