



Features

This is a very compact complex-type weather sensor developed first in Japan.

Smaller, more lightweight, more reliable, it was designed. The wind direction, wind speed, air temperature, relative humidity, and atmospheric pressure (option), all complex elements are contained.

The sensor can be directly connected with a data processing system (computer). This sensor supports wireless LAN system (option), and the multiplex network.

Since it is very compact, it is suitable for both fixed-point observation and transportable Observation.

High reliability which passed the examination of wind-resistance, vibration-resistance, rain-proof, etc. in light of hard environmental resistance.

Product Overview

Weather Mini (WM-5201) is very compact complex-type weather sensor containing 5 complex elements (wind direction, wind velocity, air temperature, relative humidity, and atmospheric pressure (option)).

The sensor can be directly connected with a personal computer, so easily you can make a simplified meteorological observation station.

The signal transformation part can be arranged in a housing.

It has RS-232C or RS-485 which can be linked directly with a personal computer, etc. as an output unit.

Moreover, the power supply is DC 9-30VDC so as to enable operation with solar cells or batteries even if no commercial power is supplied, and in light of transportability and fixability.

System Configuration Example

(1) A sensor connects with a personal computer directly by a signal cable. And data is extracted.

(2) By wireless LAN, data is extracted without using a cable, e.g., LANDISK Wireless LAN cards.

(3) A sensor is directly connected to a digital display for monitoring the data.

The sensor can be fixed to a steel tower, etc. to enable fixed-point observations. Moreover, the sensor can be easily transported, and attached to a tripod, etc.

So you can make portable observation.

With the Internet network, the data can be distributed to many clients.

【 Specifications 】

Wind direction

Type: Potentiometer

Measurement range: All direction (0 ...360 °)

Measurement accuracy: $\pm 5^\circ$

Wind speed

Type: Magnetic/Hall device

Measurement range: Wind speed 3 ...40m/s

Measurement accuracy: $\pm 5\%$

Start wind speed: 3m/s or less

Air Temperature

Type: Resistance temperature detectors / Pt1000

Measurement range: -20 ...+40

Measurement accuracy: ± 0.5

Relative Humidity

Type: Capacitance

Measurement range: 0 ...100%RH

Measurement accuracy: $\pm 5\%$

General

Output signal: RS-232C or RS-485

Operating Voltage: 9 ...30V DC

Condition of operating environment.

Outside installation equipment:

Operating Temperature: -20 ...+50

Operating Humidity: 20 ...95%RH

(no condensation)

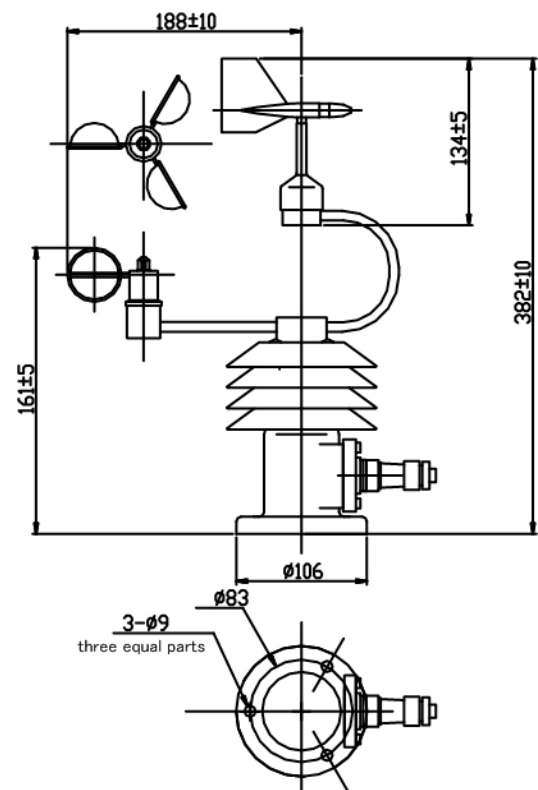
【 Standard Compositions 】

- (1) Compact complex-type weather sensor
- (2) A set of accessories and spares

【 Option 】

- (1) Junction cable
- (2) Flange

【 Dimensions 】



*The specifications in this catalog may be changed without prior notice to incorporate improvements.



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