



To measure wind velocity and direction at the fast response! Observation purpose For environmental monitoring To the low layer weather and a local meteorological observation To the atmospheric diffusion observation. To the operations administrator of transportation

Features

- Adopting a new sensor, improved environmental resistance performance.
- ◆ 3-D measurement of horizontal and vertical wind speed(blowing up and down) is possible.
- Measurement from 0 m/s to 60 m/s with high response and linearity.
- Without moving part, free from damage under the strong wind condition.

Specifications

Measurement method: Time sharing transmission/reception

switching type ultrasonic pulse emission

Processing method: Ultrasonic propagation reciprocal

difference method

Measuring range : 0 - 60 m/s (wind velocity)

(Selectable from any of

1, 2, 5, 10, 15, 20, 30, 40, 50, 60m/s)

 $0 - 540^{\circ}$ (wind direction)

Accuracy $\pm (3\% \text{ of Reading value} \pm 0.05\text{m/s})$

(wind velocity)

±3° (wind direction)

Output resolution : 0.01m/s (wind velocity)

0.1° (wind direction)

Sampling rate : 4 times/sec.

(Option: 10 times/sec. or 20 times/sec.)

Digital output : RS-422(can output any element signal)

: 0 - 20mA or 4 - 20mA (4CH)Analog output

(Select any output signal by 4 elements)

Output signal : Momentary wind velocity(Ui),

Momentary wind direction (θ i)

Momentary vertical wind velocity (Wi)

Momentary wind velocity(Xi, Yi) Vector averaged wind velocity (Um) Vector averaged wind direction (θ m) Averaged vertical wind velocity (Wm) Scalar average wind velocity(Us) Average wind velocity (Xm, Ym)

Average wind velocity of 3sec movement (U3)

Option (Sonic virtual temperature (T) *1)

*1: Available only for 10times/sec. or 20 times/sec. selected

: 1 - 15 min. (can be set at every minute) Averaging time Protection circuit: Overcurrent protection, Surge protection

Main material : Stainless

Painted color : Silver (equivalent to Munsell N8)

: -20 ~ +50°C Temperature Humidity : 10 ~ 95%RH Power supply : DC24V 4W Weight : Approx. 4.5kg

[Digital output details]

Communication speed 1200, 2400, 4800, 9600, 19200bps Data length/8bit, Parity/None, Stop bit/1bit

Output format/ASCII

Elements / Element of wind speed is output in CSV format. [Option] Heater (Specifications: DC24V 60W with 50m cable)

Configuration

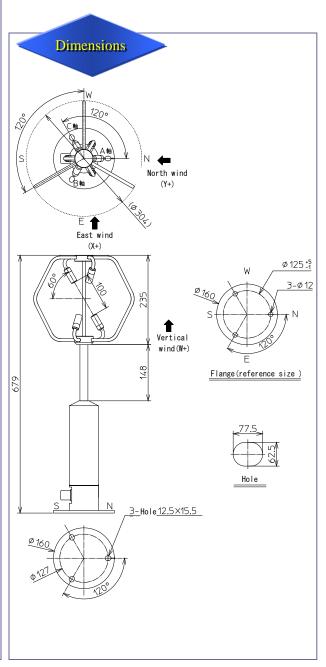
 SAT anemometer/SAT-600 : 1unit

Accessory/Display & setting software : 1set

 Connection cable/JCS-20S (20m) : 1pc.

Option unit

Power supply signal converter ✓SAT-PJBA Surge protection device (Outdoor) /SAT-SPS Surge protection device (Indoor) /SAT-SPM



🔼 CAUTION FOR SAFETY: Please read surely INSTRUCTION MANUAL before operating

• Specification is subject to change without prior notice for improvement.

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