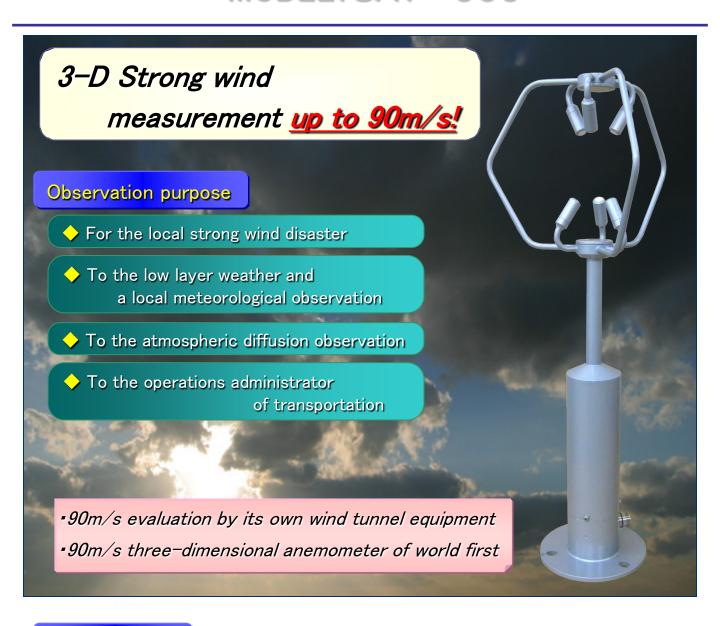


Ultrasonic Anemometer For Strong Wind MODEL: SAT-900



Features

- Adopting a new sensor,strong wind can be measured.
- Data with high reliability in strong wind is possible, thanks to new digital processing DSP.
- Measurement from 0 m/s to 90 m/s with high response and linearity.
- ◆ 3-D measurement of horizontal and vertical wind speed(blowing up and down) is possible.
- 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

: 0 - 90 m/s (wind velocity) Measuring range

(Selectable from any of

1, 2, 5, 10, 15, 20, 30, 40, 50, 60, 70, 80, 90m/s)

0 - 540° (wind direction)

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

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

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

(Select any output signal by 4elements)

Output signal : Momentary wind velocity(Ui),

Momentary wind direction (θi)

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 10 times/sec. selected

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

Main material : Stainless

Painted color : Silver (equivalent to Munsell N8)

Temperature : −20 ~ +50°C Humidity : 10 ~ 95%RH Power supply : DC24V 5W 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 items

• SAT anemometer/SAT-900 : 1unit

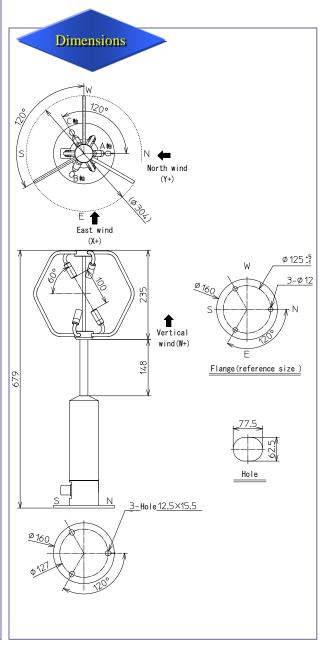
Accessory/Display & setting software : 1set

 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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