

Cat.No. **7915-00**

3-Cup Anemometer for digital wind speed indicator with alarm



Model

W11

This 3-Cup Anemometer detects wind speed and transmits the measured data to the indicator to indicate the wind speed in digital and outputs alarm signal. (Digital indicator with alarm is purchased separately)

No. 7915-00 3-cup anemometer is used connecting with No. 7915-50 digital indicator with alarm. This anemometer detects wind speed and transmits the measured data to the Indicator. Easy-to-read digital indicator displays instantaneous and mean wind speed. Alarm value that the indicator outputs can be set and is sent out with relay contact, alarm lamp and buzzer. Analog output and digital output (RS-422) are available at option

Features

- The anemometer is generation type and outputs the voltage that is generated by the rotation of 3-cup sensor. This 3-cup anemometer is light weight, durable and stable.
- Instantaneous and mean wind speeds are always-on the digital display.
- In the alarm function, three alarm outputs are provided as a standard specifications. When the set value reaches to the threshold, relay contact, alarm lamp and buzzer sound perform to alarm.

Specifications

No.7915-00 3-Cup type Anemometer (W11)

Applicable indicator	No.7915-50 Digital wind speed indicator with alarm (WAT6D0-3-00)
Detection method	3-Cup AC generation type
Measuring range	2 to 60m/s
Accuracy	±0.5m/s (at lower than 10m/s) ±5%rdg (at more than10m/s)
Starting wind speed	2m/s
Withstand wind	00m/s (in wind tunnel)

speed	
Output signal	30V±1VAC (no load) at 60m/s, Rotation of sensor: 1933rpm
Operation ambient	-20 to 50°C (no freezing at rotor)
Remote distance	within approx. 2km (in use of CVVS 1.25mm ² cable)
Materials	3-Cup sensor: polycarbonate Body: polycarbonate resin (inclusive glass fiber)
Outer dimensions	approx. Ø304mm×(H)353mm (3-Cup sensor (sensor radius rotation approx.152mm)
Mounting dimensions	4-Ø10.5mm in a 110mm dia. circle
Weight	approx. 1kg

No.7915-50 Digital wind speed Indicator with alarm (WAT6D0-3-00)

Applicable sensor	No.7915-00 3-Cup type anemometer (W11)
Input signal	30V±1V AC at 60m/s (no load)
Display	Red 7-segment LED 4 digits height: 14.2mm (upper and lower)
Display elements	Instantaneous wind speed and mean wind speed for 10 minutes
Display	0.00 to 99.9m/s
Sampling interval	approx. 1 sec. (lighting hold time)
Alarm elements	Instantaneous or mean wind speed (alarm setting range: 5 to 90m/s) * Judgement condition is the mutual setting for first, second and third alarms
Alarm output (first alarm)	. Non-voltage make contact, Contact capacity: 24VDC 1A (resistance load) . Green LED blinking (slow) . Buzzer sound (slow continuant)
(second alarm)	. Non-voltage make contact, Contact capacity: 24VDC 1A (resistance load) . Yellow LED blinking (fast) . Buzzer sound (fast continuant)
(third alarm)	. Non-voltage make contact, Contact capacity: 24VDC 1A (resistance load) . Red LED blinking (continuous) . Buzzer sound (continuous sound)
Alarm reset	. Contact output and LED display: When the wind speed is lower than the alarm setting value . Buzzer sound: to stop the buzzer with the button in the front panel
Operation ambient	0 to 50°C, lower than 90%rh (no condensing)
Remote distance	within approx. 2km (in use of CVVS 1.25mm ² cable)
Case	Steel plate, desk-top type (with rubber foot and tilt stand)
Power requirement	100VAC±10%, 50/60Hz, approx. 15VA
Dimensions	approx. (W)200×(H)110×(D)200mm
Weight	approx. 3.5kg

Option for the Indicator with Alarm Model: WAT6D0-3-1□ Analog output

Number of output	2ch
Output elements	CH1; Instantaneous wind speed: 0 to (10 to 90)m/s / 0 to 1VDC CH2: Mean wind speed: 0 to (10 to 90)m/s / 0 to 1VDC * Output elements and output range can be set. (specify it at ordering) * Output impedance: lower than 500Ω

R-SA">Option for the Indicator with Alarm Model: WAT6D0-3-□R-SA">1 Digital output

Number of output	1ch
Output signal	RS-422
Output data	Instantaneous and mean wind speed, instantaneous (max/min), mean (max/min), operation status, power status
Data transmission interval	0.25, 0.5, 1, 5, 10 sec.

