Far Data

Wind Monitor MW-2002

Simple installation and operation.

Measurement scope from 1 m/s to 45 m/s.

Adjusted for work in external conditions.

Used in places where the speed of wind is a decisive factor ensuring safety.

CHARACTERISTIC AND APPLICATIONS

The wind monitor is a controlling device composed of the following elements: NP-3 wind speed transmitter and programmable controller. The device can be used to program a wind speed value, which if exceeded, activates a transmitter's contact. The transmitter can be used to control an acoustic and optical signaller (buzzer and/or warning lamp) or any other device. It is also possible to program the time of transmitter activation. The Wind Monitor can be used in every place where the permissible wind speed is a decisive factor ensuring safety or it is necessary to automatically control various devices depending on the current power of wind.

Programmable parameters:

- alarming threshold (wind speed in m/s; transmitter is activated once this value has been exceeded);
- measurements averaging time (a period during which speed wind has to remain within the set alarming threshold; it is supposed to prevent alarm activation in the case of short and sudden gusts of wind);
- time of transmitter activation after ALARM release (if wind exceeds the set alarming threshold, the transmitter is activated and the time of activation is counted from the moment when the speed is reduced below the programmed threshold);

The Wind Monitor has been designed to control work conditions on scaffoldings, in cranes and during work at heights. Additionally, through its transmitter, the device can send information on the instances when a particular value of wind speed has been exceeded to another system.

TECHNICAL DATA

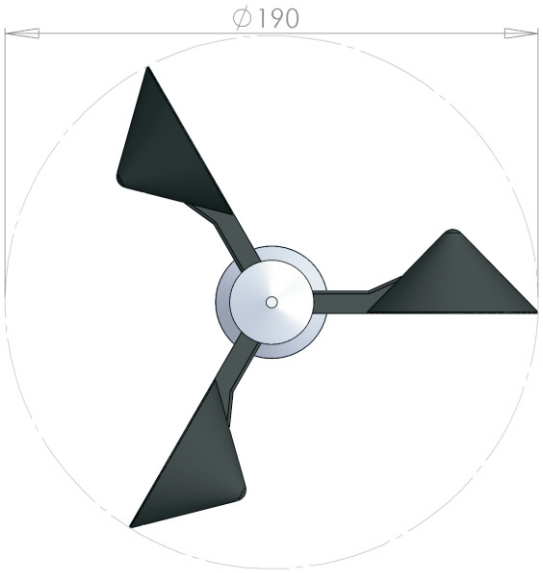
Anemometer NP-3

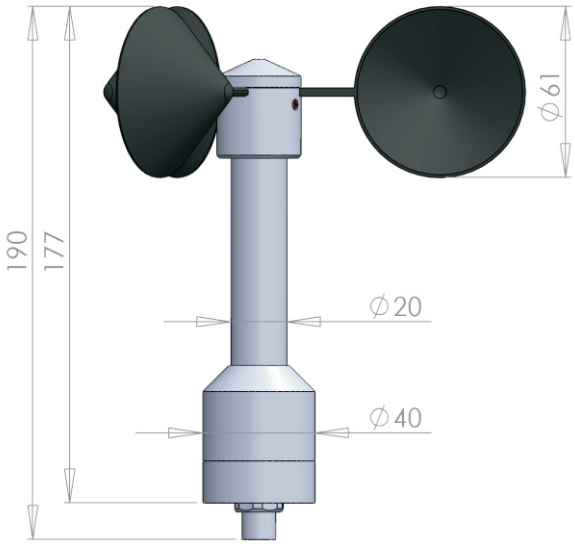
Wind speed range:	0.5 - 45 m/s
Starting value:	0.5 m/s
Accuracy:	2 %
Power supply:	8 to 24 VDC
Current consumption (average):	~8 mA
Operating temperature:	-40°C to +70°C
Construction:	anodised aluminium and polyamide
Ingress Protection rating:	IP54 (labyrinth seal)
Weight (without cable):	260 g
Output:	NPN or PNP (open collector OC)
Measuring principle:	optoelectronic
Maximum output load:	100 mA
Speed resolver:	10 impulses/s = 1.5 m/s
Overvoltage protection:	YES

Microcontroler

Power supply:	~230 VAC
Current consumption (average):	18 mA
Operating temperature:	- 40°C to +70°C
Wind speed range:	1-45 m/s (1 m/s = 3.6 km/h)
Measuring resolution:	1 m/s
Ingress Protection rating:	IP55
Weight:	575 g
Dimensions:	150mm [h], 120mm [w], 100mm [d]
Averaging time (programmable):	1-10 s
Relay function threshold (programmable):	1-30 m/s
Relay hold time (programmable):	1-59 min

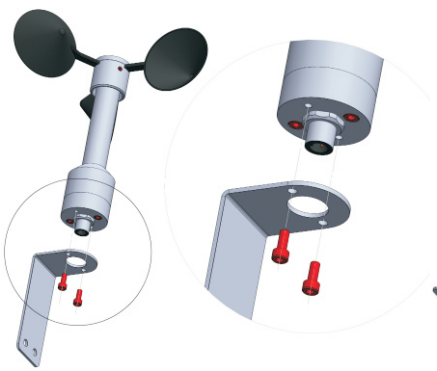
DIMENSIONS



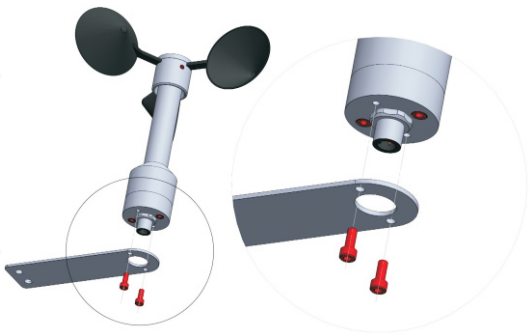


ASSEMBLING AND CONNECTION

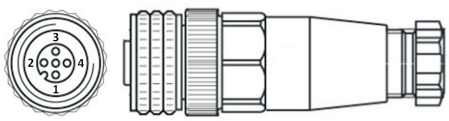
Wall mounting kit.



Roof mounting kit.



Female connector



Pin descriptions:
1 - Power supply (from +8 VDC to +24 VDC)
2 - Not used
3 - GND
4 - Output

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