

TER Ceska s.r.o.

Anemometer Golf-Easy

instruction manual



1. Technical characteristics

Sensor:	optical
– measurement range:	0–30 m/s (0–108 km/h)
– resolution:	0.06 m/s
Siren:	dual tone, 110 dB
Optical indication:	high luminosity LEDs
– lifetime:	100 mil. cycles
– warning signal:	amber triangle 55 LEDs
– alarm signal:	red circle 98 LEDs
– frequency of flashes:	1 Hz
Power supply:	48, 115, 230, 400 V AC (-15%/+10%)
Operating temperature:	-20°C/+60°C
Degree of protection:	IP65
Cables entry:	cable clamp PG9
Dimensions:	306×226×170 mm
Weight:	2.5 kg (with fastening)
Fastening:	4 mm bichromate steel

2. Installation

2.1. General instructions

The anemometer must be mounted at the top of the crane, clear of any obstructions.

The position must be visible and accessible for an easy maintenance.

The anemometer must always be connected; it should only be disconnected when the crane is in weather-vane mode.



ATTENTION!: THE SUPPORT ASSEMBLY SHOULD NOT BE AT AN ANGLE GREATER THAN 15°.



ATTENTION!: METALLIC PARTS MUST BE ASSEMBLED ON THE CRANE BEFORE MOUNTING THE ANEMOMETER TO THE CRANE (EXCEPT WITH THE MAGNETIC OPTION).

2.2. Horizontal mounting on a level surface

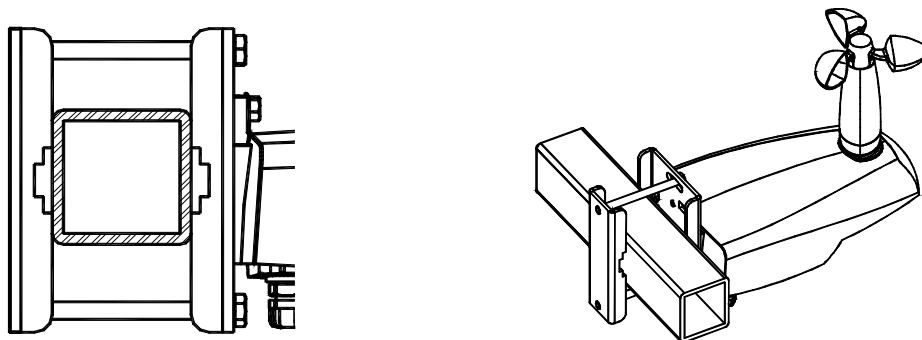


Fig. 1: Horizontal mounting on a level surface

2.3. Horizontal mounting on a tubular surface

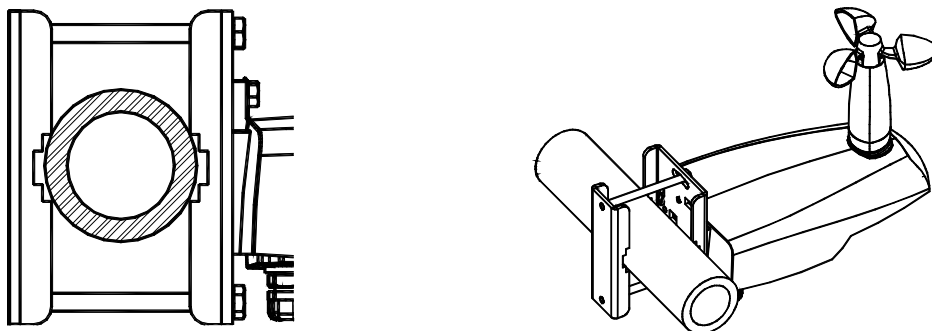


Fig. 2: Horizontal mounting on a tubular surface

2.4. Horizontal mounting on an angular surface

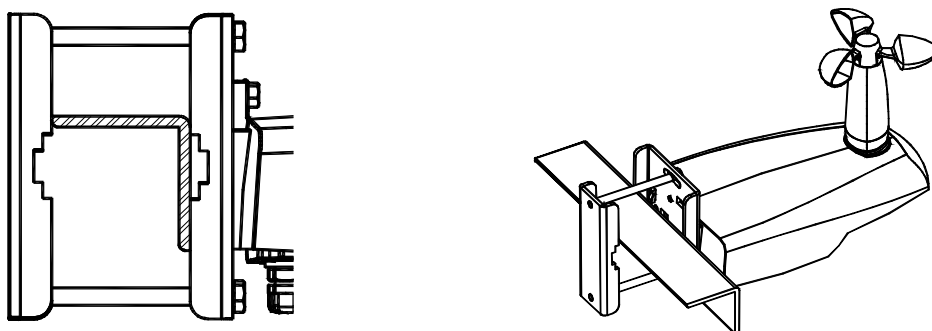


Fig. 3: Horizontal mounting on an angular surface

2.5. Vertical mounting

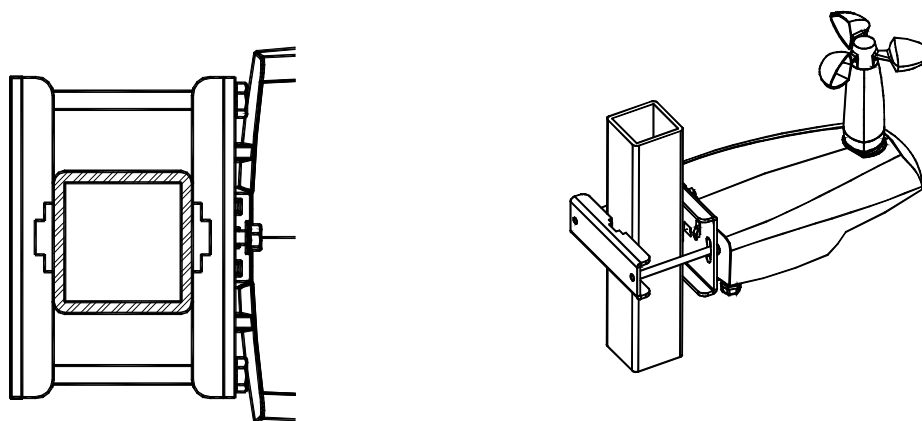


Fig. 4: Vertical mounting

2.6. Anemometer to bracket securing process

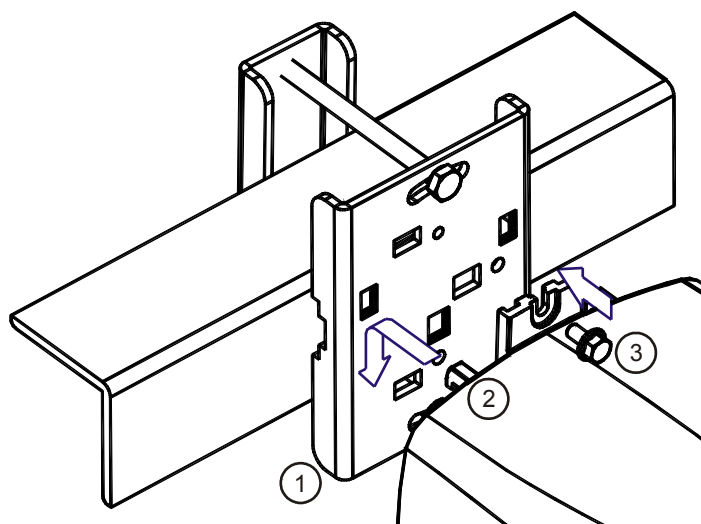


Fig. 5: Anemometer to bracket securing process

1. Once the metal bracket has been fixed to the crane (1), insert the fringe of the anemometer (2) inside the holes and secure with a down movement.
2. Secure the anemometer with the screw DIN 6921 M6 (3) already supplied.



ATTENTION: PLEASE HANDLE THE ANEMOMETER BY ITS BODY. NEVER HANDLE THE UNIT BY ITS SENSOR.

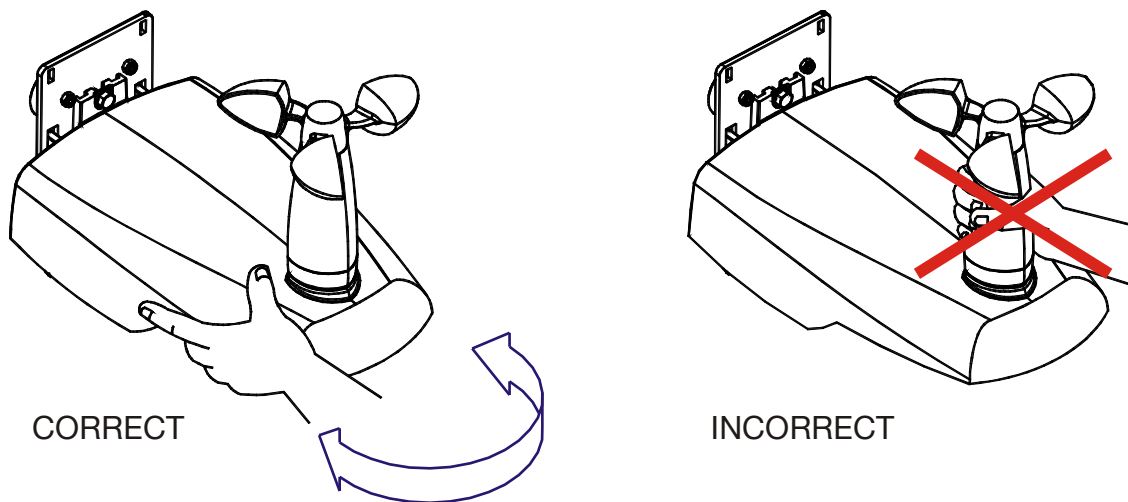


Fig. 6: Manipulation with the anemometer

3. Starting up

3.1. Configuration

The equipment allows for different configurations via a mini DIP switch with 4 selectors located internally. The functions are:

- auto-test function
- operator to restart the equipment when the anemometer has been activated (acoustic signal at 70 km/h)
- cancel the acoustic signal in special areas like near hospitals, residential zones etc.

To change the configuration or to connect the unit, unscrew the lower cover.

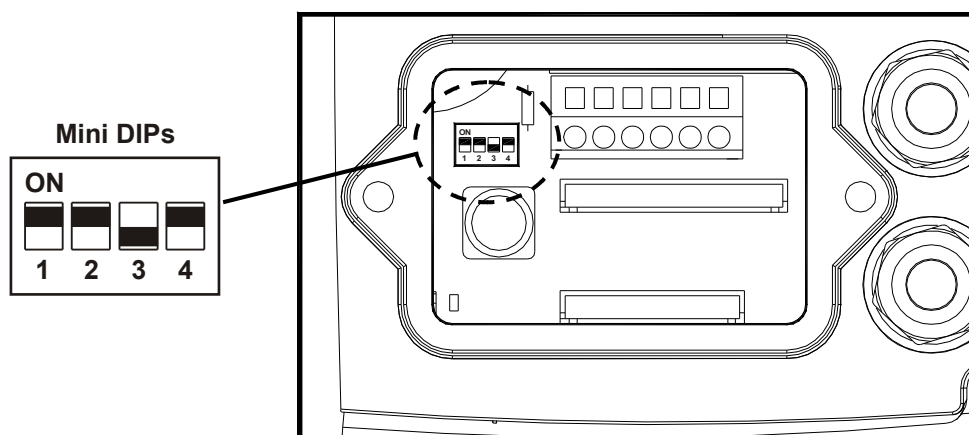


Fig. 7: Location the mini DIPs

DIP 1	ON *	Self-test when start-up
	OFF	Do not perform self-test when start-up
DIP 2	ON *	Siren on
	OFF	Siren off
DIP 3	ON *	Once the 70 km/h limit has been reached, the ALARM remains activated, it will only be deactivated if the power supply is disconnected.(minimum 15 seconds)
	OFF	The alarm stops when the wind velocity descends below 70 km/h



ATTENTION: THE DIP 4 CONFIGURATION IS FOR AUTHORIZED PERSONAL ONLY, THE RIGHT POSITION IS ON, IF THE DIP 4 IS IN OFF POSITION THE EQUIPMENT WILL SHOW A SENSOR ERROR.

DIP 4	ON *	Normal function
	OFF	Maintenance functions

* – original configuration

3.2. Power supply

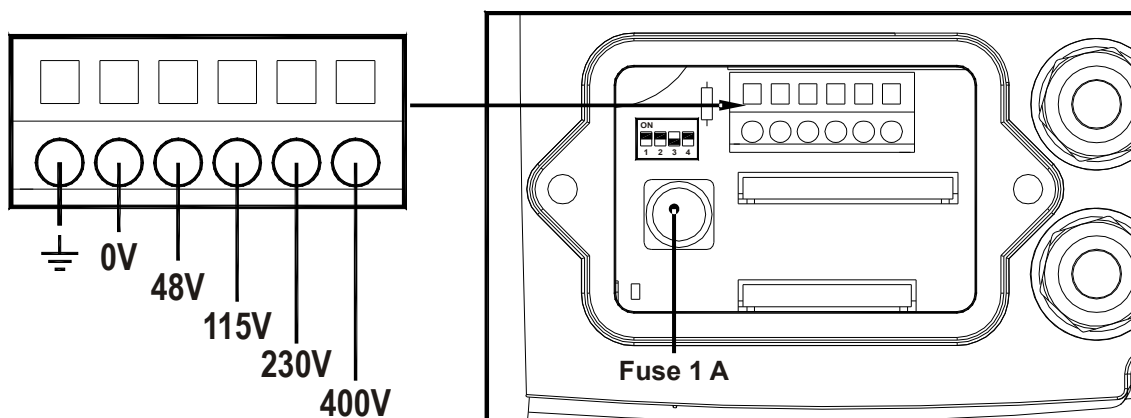


Fig. 8: Internal connection

- Depending on power supply, connect cables to the appropriate terminals as shown in Fig. 8.
- After completing the configuration of additional features and the power supply wires connection pull the power supply cable cord through the cable clamp.
- Tighten the cable gland against the cable to ensure the unit is watertight.
- Ensure that the connection cover is closed to guarantee the total IP65 protection.

3.3. Operation

Autotest

When you switch on the anemometer (config. DIP 1), it will run through an auto test sequence showing 2 blinks per LED and sounding the acoustic signal (config. DIP2).

Sensor malfunction

In case of a sensor malfunction, broken cable or incorrect connection, the anemometer will switch on the LEDs alternatively.

4. Optional equipment

4.1. Relay output (signal & alarm)

This module (Fig. 9) has 2 relays (125 VAC 0.6A), potential free, that activate once the wind has exceeded the set limits.

The acoustic signal relay, will remain activated, and will only be deactivated once the wind speed has dropped to a safe velocity.

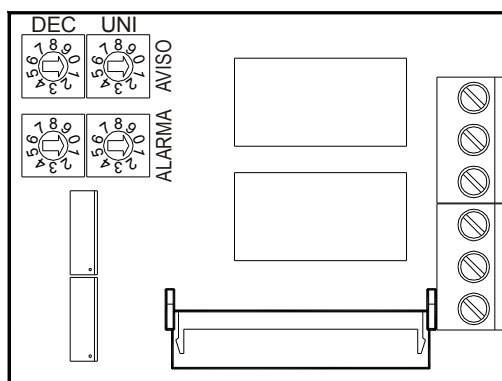


Fig. 9: Two relay output card

Wind velocity setting

We can set the different wind speeds for places where there is a high risk of very windy conditions. (Fig. 9).

Should the configuration of the card be different from the standard configuration, during the auto test, the LEDs will blink 3 times instead 2.

4.2. RS485 Output (peripheral communication)

This module (Fig. 10) has an RS485 output that allows you to connect it to the other equipment (external display, etc.).

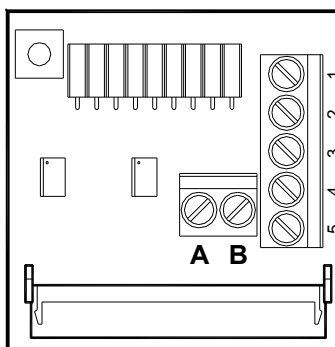


Fig. 10: RS485 Module

5. Contact

For any questions or problems, please contact your dealer or directly the company:



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