AN6410

User Manual

Capetti ELETTRONICA

WineCapPro

General warnings .

- The following information must be read and understood before proceeding with the installation, commissioning and maintenance of the devices described in this document.
- ATTENTION! Any omission or failure to scrupulously follow these instructions may cause danger.
- ATTENTION! Explosion hazard. If the need arises to replace the batteries, make sure that the type is compatible and adheres to the specifications indicated by the Manufacturer.
- If the need arises to replace the batteries, if present, DO NOT disconnect the flat cable that connects the electronic boards without first disconnecting the batteries.
- ALWAYS replace all batteries, even if only one battery is flat
- If the device is powered by a power network, make sure you have disconnected the power supply before carrying out any type of intervention. Failure to comply with this indication may cause damage to people and/or things.
- If necessary, follow the manufacturer's recommendations for the warm-up time (time required to obtain a reliable measurement) of the transducer.
- If necessary, follow the electrical wiring indicated by the manufacturer of the transducer to be measured (*single point earth shielding, length and section of wiring*); voltage measurements over distances greater than 15/20 meters are more vulnerable to electromagnetic disturbances. The 0÷25mA inputs have superior electromagnetic compatibility (*EMC*).
- Avoid passages in shafts with the presence of power or high voltage cables.
- The protection and safety measures and the warranty provided by the Manufacturer with the equipment may be compromised if the latter is used in a manner that does not comply with this user manual.
- This equipment complies with CE regulations.
- Modifications or tampering not expressly approved by the Manufacturer could void the user's authority to operate the equipment.
- This equipment must be installed by qualified personnel and in accordance with national regulations and/or relevant local requirements.
- Ensure that the object is properly secured to supports/infrastructure that can withstand this load. Ensure that appropriate methods and materials are used when attaching the equipment to a wall.
- Only personnel expressly authorized by the manufacturer can open the container. There are no user-serviceable parts inside.

1. Description

AN6410 cup anemometer is an advanced wind speed measurement instrument, designed to deliver reliable performance in a wide range of environmental conditions.

Ideal for meteorological, industrial, agricultural and wind farm monitoring applications, this device combines robustness, precision and ease of use.

2. Main features

High Accuracy and Sensitivity: Designed to provide accurate measurements even at low wind speeds, thanks to advanced technology and quality materials.

Rugged Construction: Made of corrosion- and weather-resistant materials, the AN6410 is suitable for permanent installations in harsh environments.

Easy Installation and Maintenance: Ergonomic design for quick installation and minimal maintenance, ensuring continuous operation.

High Protection: IP67 certification guarantees protection against dust and temporary immersion in water, making the AN6410 suitable for use in extreme climate conditions.

3. Typical Applications

- Meteorological monitoring
- Precision Agriculture
- Environmental Studies
- Wind farms
- Industrial Applications

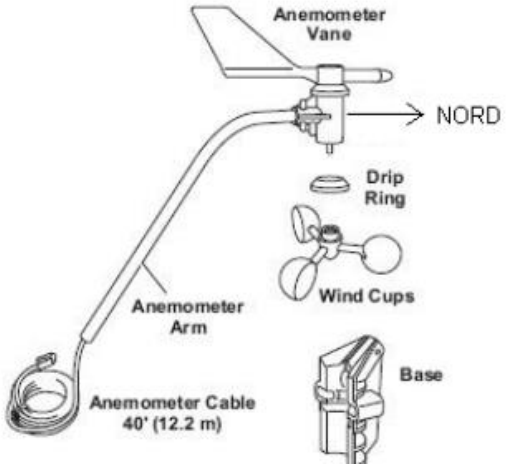
4. Connection layout

Color	Function
Yellow	Potentiometer (*1*)
Green	Potentiometer (*2*)
Red	Hall/Potentiometer (*3*)
Black	Common+

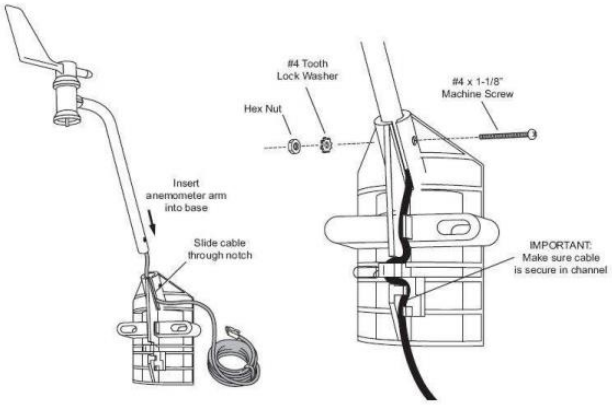
5. Technical specifications

Measuring range	0.5÷70m/s
Operating range	>80m/s
Frequency conversion specifications	m/s=(Hzx1.006)
Type of speed sensor	Reed with magnet
Type of direction sensor	20KΩ potentiometer
Output signals	• Impulsive • Potentiometer
Power supply	None
Wind vane and cup material	UV resistant ABS
Arm	Aluminum
Connecting cable	Included 12Mt 4 x 26AWG
Material	Aluminum and stainless steel
Weight	450g

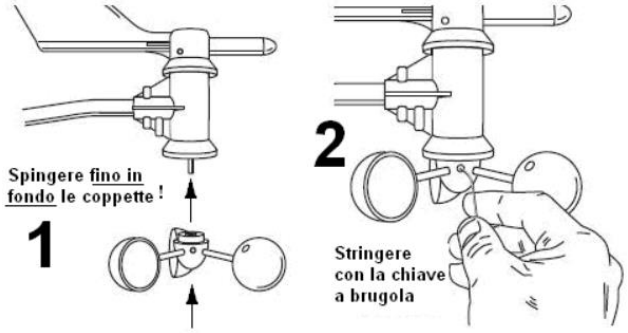
6. Assembly and installation



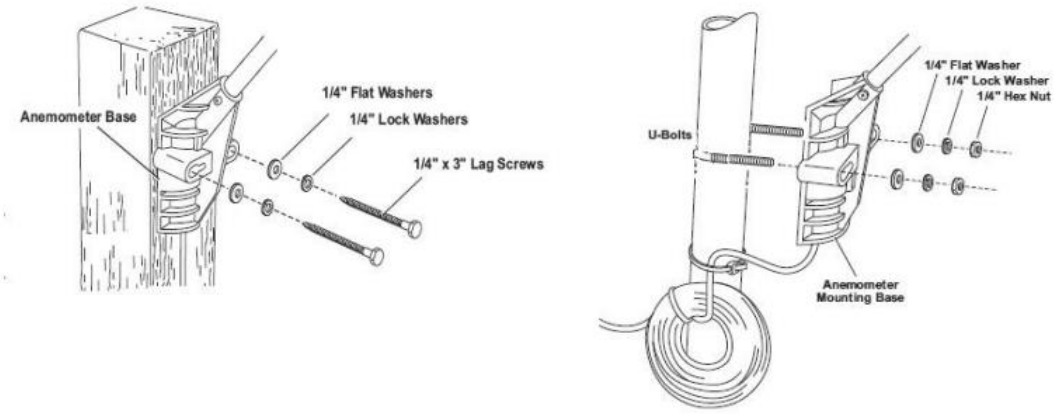
Aim the anemometer to the NORTH of the pole



Mounting bracket assembly and cable routing



Insert the cups all the way into the pin before tightening with the Allen key



Installation on wood or pole

7. Disclaimer

- Specifications are subject to change without notice and should not be interpreted as a commitment on the part of Capetti Elettronica Srl
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- The product is not intended for uses where the safety factor is critical, such as life-saving devices or medical applications.
- If a channel is saturated or disturbed, the frequency hopping transmission method provides great reliability, but in environments with high radio wave emissions, correct product operation is not guaranteed.

8. Reference standards .

EN 61010 -1

For electromagnetic compatibility

EN 61000 - 3 - 2
EN 61000 - 3 - 3
EN 300 220 -2
EN 301 489 - 03
EN 61000 - 6 -1

The symbol reproduced here on the side guarantees compliance with European regulation 2011/65/EC which limits the use of substances in the production of electronic equipment.

RoHs
2011/65/CE

Meaning of the "WEEE" logo on the label guarantees compliance with the EC directive called "WEEE". This symbol (valid only for European Community countries) indicates that the product on which it is applied must NOT be disposed of with common domestic or industrial waste, but must be sent to a separate collection system. The end user is therefore invited to contact the supplier of the device, be it the parent company or a retailer, to start the collection and disposal process, after appropriate verification of the contractual terms and conditions of sale.

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