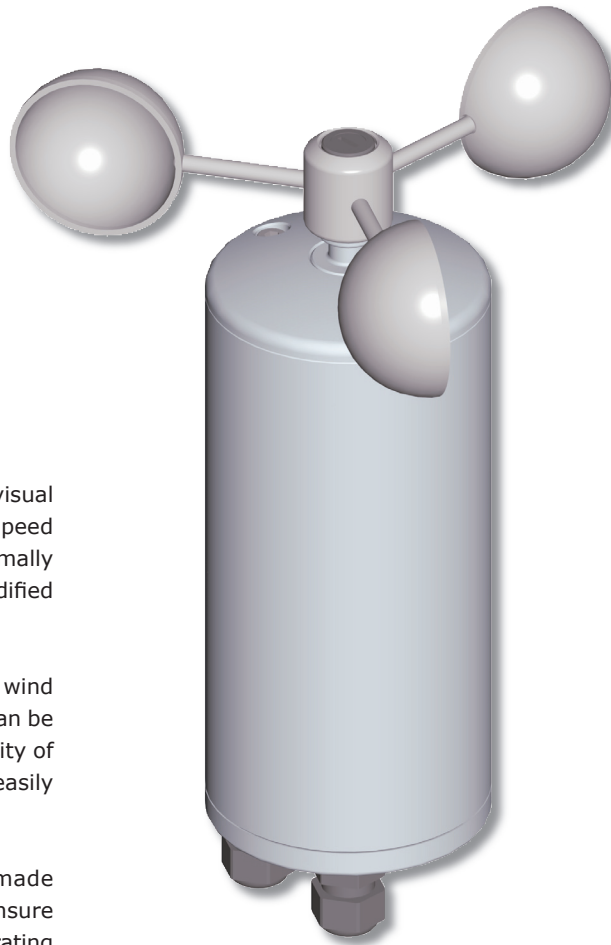


GOLF



GOLF ANEMOMETER

— Golf is a device designed to *signal*, in a visual and/or acoustic way, when one or more wind speed thresholds are exceeded. These thresholds are normally fixed by specific regulations, but they can be modified upon customers' request.

— Golf consists in two separate units, a wind speed measuring unit and a signalling unit: they can be installed separately or as a single unit. The flexibility of the product makes it possible to install both units easily and quickly, whether together or separately.

— The wind speed measuring unit is made with top-quality materials and components to ensure maximum service life even under the toughest operating conditions. Installation and anchoring are made easier thanks to standardized boring and universal locking systems.

— The signalling unit is modular, so it can include flashing lights with different colours and sirens to meet the most diverse needs. Golf is also equipped with three power relays to interface with/control external units.

— Active machine element

Golf can be connected with Echo, thus making it an active element of the machine: at every instant it will send a signal as a function of the actual wind speed; this information will be processed in order to directly control the machine. For example to control load swinging and to place the machine in safety threshold, by temporarily eliminating fast movements of the load.

— Self-test

When switched on, Golf checks that all its components are efficient by running in a few instants a test of siren, flashing lights, sensors, etc. Even the slightest error will cause Golf to emit visual and acoustic signals to warn the operator.

— Highest safety standards

Golf has been designed to comply with the strictest safety regulations. Thanks to sophisticated self-test systems it prevents all kinds of failures and malfunctions at all times and under any condition. In case of failure, it warns the operator and places the machine in a passive safety mode. No other component currently available on the market meets this requirement.

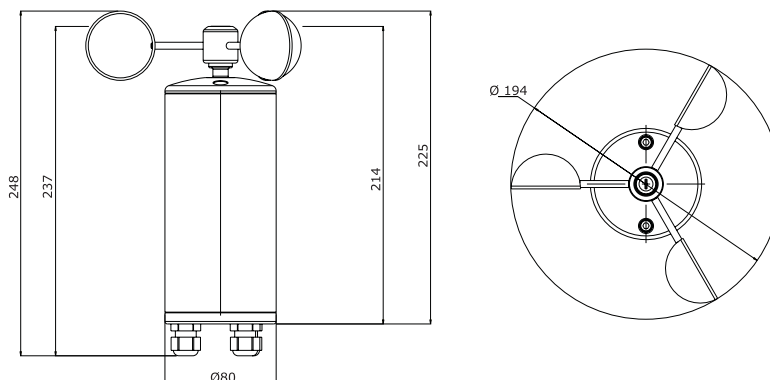


GOLF ANEMOMETER

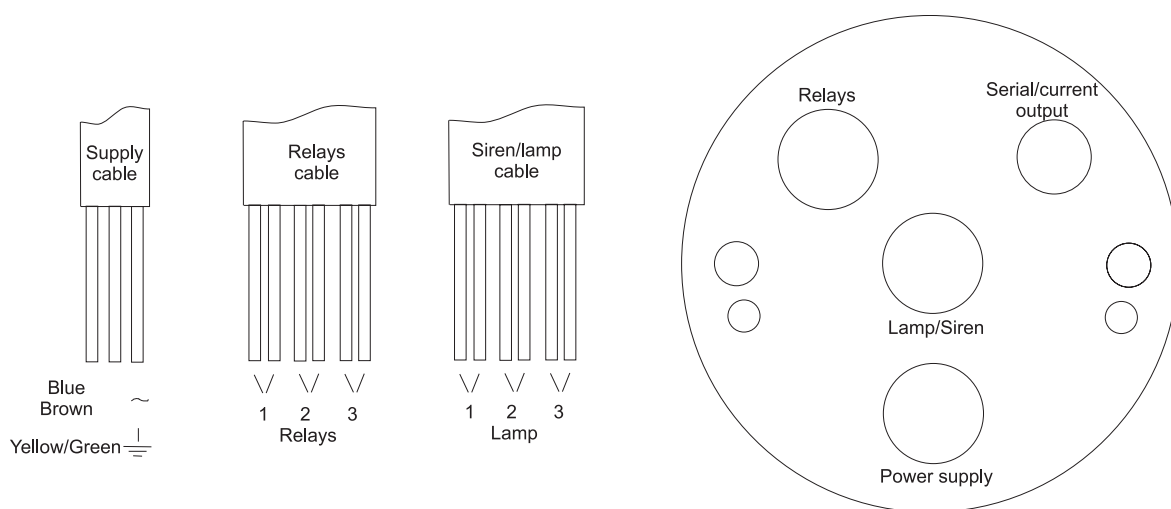
SPECIFICATIONS

Conformity to Community Directives	89/336/CEE 2006/95/CE
Conformity to Standards	EN 60947-1 EN 60947-5-1 EN 61010-1 EN 61326
Maximum speed	120km/h
Ambient temperature	-10°C +70°C
Protection degree	Measuring unit IP65
Sound power dB(A)	100
Flashing colours	Red Yellow Green
Power supply	48, 110, 230, 400 Vac
Output cable	30m (optional 40m)
Minimum No. of continuous working hours	10000
Applicable regulations	Smie
Interfaces	Echo
Safety class	2-3
Additional outputs	3 relays + RS 232
Current output	4÷20mA
Serial output	RS 232
Optional	PCT

OVERALL DIMENSIONS



OUTPUT LEGEND



The data and the products illustrated in this brochure may be modified without notice. Under no circumstances can their description have a contractual value.

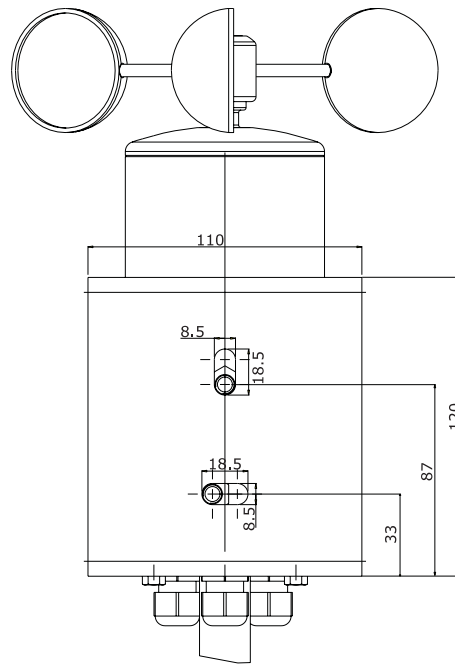


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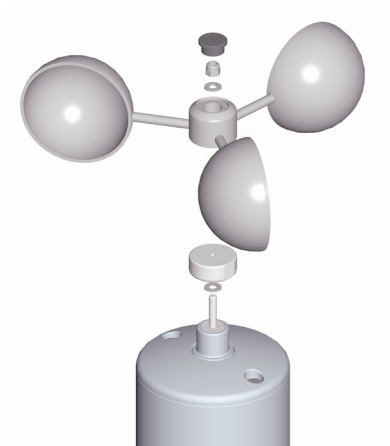
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INSTALLATION DRAWINGS

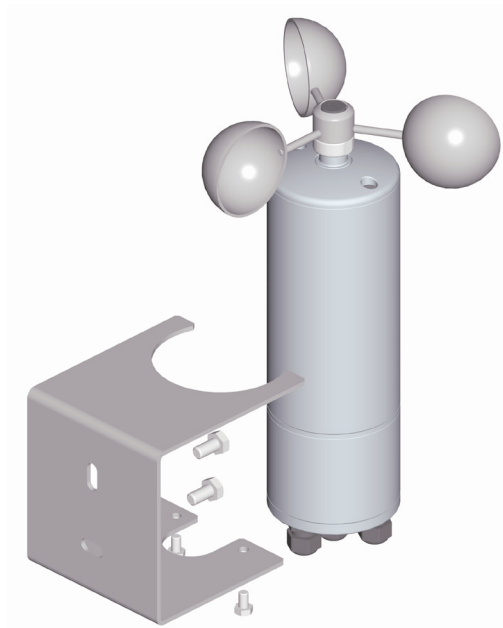
Drawing 1



Drawing 2



Drawing 3



INSTALLATION, USE AND MAINTENANCE INSTRUCTIONS

The output legend includes the connection diagrams

Positioning

The positioning of Golf is essential to guarantee the perfect functioning and the right correspondence to the wind speed values: an inaccurate installation jeopardizes the proper functioning of the equipment. In order to avoid any problem, the installation shall be carried out by expert personnel.

Golf must be fixed vertically and the rotor must be on top, the tilt tolerance shall not exceed 1°: use a level during installation.

Find a position where the equipment is exposed as much as possible to direct wind: avoid positioning near walls, pillars, fences, posts etc.

Always choose the higher available point, above obstacles which could deviate and/or slow the wind speed.

Anchoring

Fix the support paying attention to what specified in the above paragraph.

Insert Golf from the top and anchor it to the support with two screws (see drawing 2). Pay attention when positioning the cables and fix them with permanent clamps.

Permanent magnets are available (optional) to facilitate and speed up anchoring operations; they are suitable to support the anemometer weight. Use these supports on metal surfaces.

Always fix the output cables and make a professional wiring in order to protect the cables when mechanical parts are moving.

It is better to install the equipment in a windy day so that it is possible to check its functioning immediately.

Maintenance

Golf does not require periodic maintenance. All moving parts are self-lubricated, therefore do NOT grease or oil the rotor.

Clean and check periodically.

Check that the rotor turns free without stopping or slowing down. Clean the rotor using compressed air and a dry brush. Disassemble the rotor as showed in drawing 3: unscrew the upper black plug with a flat screwdriver, then hold the ring and unscrew using a 7mm socket wrench. After cleaning, fit back the rotor and tighten the nut.

Check that the cable clamps are tighten. Check that the support and the screws are tighten. Check that the cables are not damaged and that they are properly fit and fixed.

Software

The equipment can be configured via its software "Golf interface".

The software can configure:

- Green light lit independently of the threshold exceeding or its free operation.
- Intervention threshold for pre-alarm and alarm.
- Fixed enabling of a lamp in case the thresholds are exceeded or blinking of the lamp.
- Advise time in case a pre-alarm and/or an alarm threshold is exceeded.
- Hysteresis time for pre-alarm and alarm (used to prevent alarm signals in case of temporary gusts of wind).
- Enabling of lamps and relays.
- Selection of a relays that can be used as "enable" of the anemometer (When starting the anemometer, it checks the functioning of lamps and relays and when they do not work it does not close the "enable" relays chosen by the operator).

