3R UAV01
Ultrasonic Anemometer for VP2

Special Features

- Outstanding accuracy and reliability
- Low starting threshold
- Direct replacement for the Davis VP2 standard wind cups anemometer
- Rugged and resistant industrial design with no moving parts
- Wide working temperature range
- Integrated protection against overvoltage and reverse polarity
- Easy installation free of maintenance
- Suitable for safety and control applications

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3R UAV01 Ultrasonic Anemometer for VP2

Sensor Overview

High performance technology

The 3R UAV01 is a 2-axis ultrasonic anemometer that measures the wind speed and direction with high accuracy and reliability thanks to its advanced technology.

It is especially designed to directly replace the Davis VP2 standard wind cups anemometer without needing to use any other component or transmitter apart from a power supply.

To determine the wind speed and direction, the sensor emits ultrasonic pulses from one transducer to the opposite one along 2 orthogonal axis and then measures the elapsed time between the emission and the reception of the pulses. The measurements are done in both directions of each path to avoid errors caused by the current environmental conditions of temperature, humidity and barometric pressure.

Its high performance makes it ideal for all kind of security and control applications in roads, buildings, ski resorts, theme parks, harbors, etc. Its low power consumption allows to use it in installations powered by solar panels.

Rugged and weatherproof design

The sensor features a very rugged design to ensure high resistance to weathering and has no moving parts that could fall off, break or freeze, which minimizes the need of periodic maintenance.

CE

25/05/2012 Rev. A

Technical Specifications

Sensor Specifications

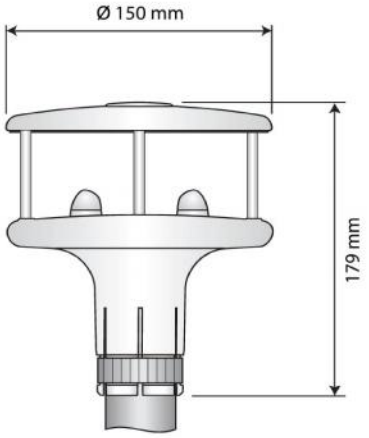
Range	0 to 60 m/s	0° to 360°
Resolution	Same as Davis VP2	
Accuracy	±2%	±2°

Electrical Specifications

Power supply voltage	10 to 30 VDC
Power consumption	40 mA (max.)
Output signal	Davis VP2 compatible

Mechanical Specifications

Working temperature	-40°C to 60°C
Material	Aluminium and high strength plastic
Dimensions	⌀ 150 x 179 mm
Weight	1 Kg



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