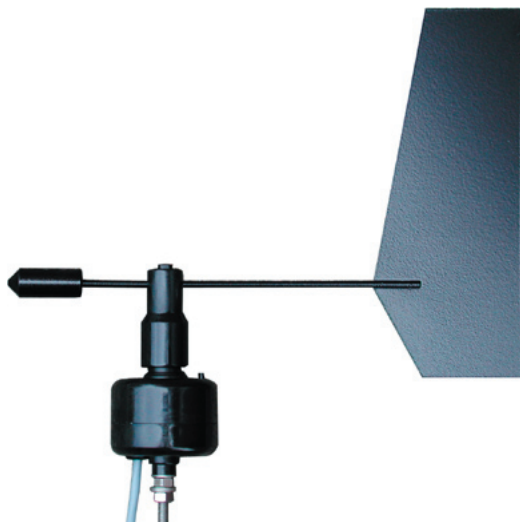


Wind Direction Sensor *economy*



Description

Simple sensor for the measurement of the horizontal component of the wind direction.

A potentiometer senses the position of the vane and provides a resistance signal linearly depending on the wind direction.

Technical Data

Sensor

Sensing elementvane
Transducer.....conductive plastic potentiometer
Output0..350° = 0..5 kΩ
Resolution1°
Accuracy± 3.6° = 1% FS

Vane

Materialglass fibre reinforced plastic,
brass level and counter weight
Swept radius.....ø100 mm
Bearingsplain bearings

Power Supply

Supply voltage1..15 VDC
Current consumption.....1 mA at 5 V
Maximum load1 mA at 15 V

Heating

Heating power.....No heating

Casing

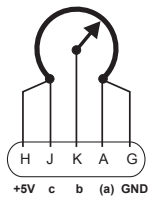
Materialplastic
 Protection classIP 55 in upright position
 Dimensions $\varnothing 40 \times 150$ mm
 Weight0.2 kg
 Mountingcentral M5 mounting screw

Electrical Connection

Connection (at the sensor)cable directly connected to the sensor
 Connector (to the data logger, optional)12 pin circular connector DIN 45322
 Cable4 x 0.25 mm² (optionally shielded)

Wiring

12 pin connector	Wire	Function
H	white	(+) power supply
J	brown	(+) power supply
K	green	output signal
G	yellow	ground
casing	yellow/green and shield	cable shield



Environmental Conditions

Operating temperature-25..+70 °C
 Relative humidity0..100%
 Maximum wind speed35 m/s



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