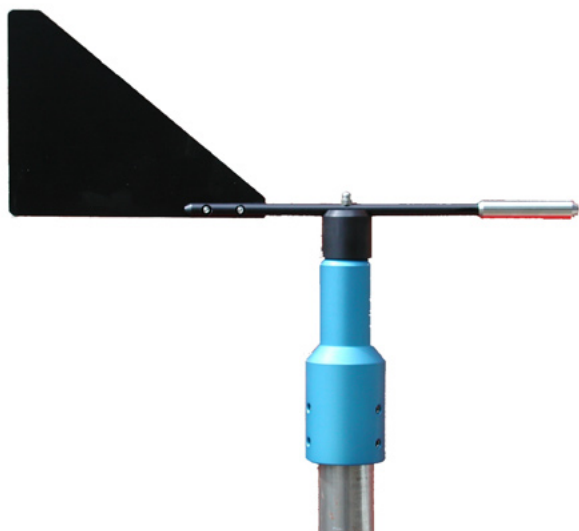


## Wind Direction Sensor *standard*



### Description

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 dependent on the wind direction.

### Technical Data

#### Sensor

Sensing element.....	Vane
Transducer.....	Precision wire potentiometer
Output .....	0..358° = 0..10 kΩ
Resolution .....	0.5°
Accuracy.....	± 1.5°
Starting threshold .....	0.3 m/s at 90° displacement

#### Vane

Material.....	Anodized aluminium, black, stainless steel counter weight
Swept radius .....	ø225 mm
Bearings .....	Stainless steel ball bearings

#### Power Supply

Supply voltage .....	1..15 VDC
Current consumption .....	0.5 mA at 5 V
Maximum load .....	1 mA at 15 V

#### Heating

Heating power .....	No heating
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## Casing

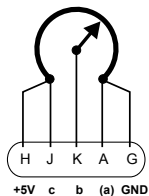
Material.....	Anodized aluminium, blue
Protection class.....	IP 55
Dimensions .....	ø50 x 500 mm
Weight .....	0.7 kg
Mounting.....	The sensor mounts on a standard one inches pipe with ø34 mm outside diameter and > ø25 mm inside diameter

## Electrical Connection

Connector (at the sensor).....	7 pin circular connector DIN 45322
Connector (to the data logger, optional) .....	12 pin circular connector DIN 45322
Cable.....	5 x 0.25 mm <sup>2</sup> (optionally shielded)

## Wiring

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



Connector

## Environmental Conditions

Operating temperature .....	-25..+70 °C
Relative humidity .....	0..100%
Maximum wind speed.....	60 m/s



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