



WDS

## Technical Data

<b>Measuring principle</b>	Hall effect
<b>Life expectation</b>	>20 x 10 <sup>6</sup> rotations
<b>Electrical angle</b>	360 degree
<b>Mechanical angle</b>	360 degree without stop
<b>Damping ratio</b>	0.35
<b>Threshold</b>	1,2...1,5m/s
<b>Lineraty</b>	1%
<b>Operating temperature</b>	-30...+80C
<b>Temperature cofficient</b>	+/- 200ppm/C
<b>Analogue outputs</b>	mA or V
<b>Digital communications</b>	RS232 or RS485
<b>Power supply</b>	11...30Vdc
<b>Power consumption</b>	30...40mA
<b>Housing</b>	POM, black
<b>Vane blade</b>	painted glass fibre epoxy
<b>Bearings</b>	oil bronze
<b>Mounting hardware</b>	stainless steel

## Features

- **No potentiometer or analogue hall sensor**
- **Digital data output RS232 oh RS485**
- **Programable analogue outputs (current or voltage)**
- **North Calibration with the PC**
- **Wind direction without death angle and a resolution better than 1 degree**
- **Excitation delay time 3 sec.**
- **Open collector outputs**

## Design Features

With this leight, long life wind vane the wind direction is measured over the full 360 degree without dead angle.

The angle is measured contact free using Hall effect.

Using RS232 or RS485 communication the analogue (mA or Volt) outputs are onfigurable.

Also two programmable open ollector output are available for control purposes.

A mechanically very robust sensor with a glass fibre epoxy vane blade, a brass painted balance weight, oil bronze bearings and stainless steel mounting hardware.

## Application

Wind direction transmitters are used for demanding recording of wind angle:

- crane installations
- ski lifts and cableways
- building management systems
- blind protection
- weather station
- scientific and research purposes
- wind power installations
- green house control
- in hydrology

## Ordering Codes

<b>WDS 010</b>	Wind direction transmitter <b>0-10Vdc</b>
<b>WDS 420</b>	Wind direction transmitter <b>4-20mA</b>
<b>WDS 020</b>	Wind direction transmitter <b>0-20mA</b>
<b>WDS 001</b>	Wind direction transmitter <b>0-1Vdc</b>
<b>WDS 232</b>	Wind direction transmitter <b>RS 232</b>
<b>WDS 485</b>	Wind direction transmitter <b>RS 485</b>
<b>WDS Open</b>	Wind direction transmitter <b>Open collector</b>
<b>MB 1</b>	Mounting bracket for one wind sensor
<b>MB 2</b>	Mounting bracket for two wind sensor



Dimensions

