

Wind Direction Transmitter "First Class"

Part number: 4.3151.00.400

Special characters are a defined and optimised, dynamic behaviour as well as:

- High measurement accuracy and resolution
- High damping with small distance constant
- Low starting value
- Low power consumption
- Simple mounting

The measuring value is available at the output as digital signal. The output signal can be transmitted to display instruments, recording instruments, data loggers as well as to process control systems.

Characteristic:

The WD transmitter can acquire the WS signals of 4.3352.x.000, and add the parameter wind speed to its serial data telegram



Specification

Part number: 4.3151.00.400

Wind direction

Measuring range	0 ° ... 360 °
Resolution	0.1 °
Accuracy	±1 °
Starting value	0.5 m/s at 10 ° acc. to ASTM D 5096-96 0.2 m/s at 90 ° acc. to VDI3786 page 2
Distance constant	1.8 m acc. to ASTM D 5096-96
Damping ration	> 0.3 acc. to ASTM D 5096-96

Data output digital

Interface	RS485
Baudrate	1200 ... 57600 Baud
Protocol	ASCII

Operating voltage

Electronic	3.3 ... 42V DC
Current consumption	0.5 mA without data query 1.0 mA with data query

Heating	24 V AC/DC, 25 W
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General

Ambient temp.	-50 ... +80 °C, all occurring situations of rel. humidity
Electr. connection	8 pol. plug connection
Mounting	onto mast tube Ø 1 ``
Material	aluminium anodised, stainless steel
Protection	IP 55
Dimension	Ø 450 x 410 mm
Weight	0.7 kg
Mounting	Ø 35 x 25 mm

Versions

No other versions of this product are available.

Accessories

Product	Product name	Brief description
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Geovane
4.3190.00.900

The product set combines the precise wind vanes from Thies CLIMA with the advanced Geovane from Kintech Engineering. The Geovane uses GPS and the sun position to automatically determine the exact north direction 1° accurate. This combination ensures the highest accuracy of wind direction against the geographic north point as a reference.

- Geovane for automatic north correction
- 1° precise wind vanes from Thies CLIMA
- Wind vane and geovane are preconfigured
- Ideal e.g. for site surveys, power curve monitoring and meteorology

Wind direction

Measuring range	0 ... 380 °
Resolution	0.06° RS-485 0.11° Analog voltage outputs 0.06... 0.16° Frequency output
Accuracy	1°

Miscellaneous

Electrical input	0 ... 30 V
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Operating voltage

Electronic	6 ... 12 V DC
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General

Ambient temp.	-25 ... +85 °C
Mounting	Onto mast tube Ø34mm
Protection	IP 67
Measuring time	1, 5, 10, 30, 60 seconds
Weight	0,815 kg