

Wind Direction Transmitter "First Class"

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

- High level of measuring accuracy and resolution
- High damping ratio at a small delay distance
- Low starting threshold
- Very low power consumption
- No wear of the potentiometer due to mechanical stress
- Overvoltage and reverse polarity protection

The measuring value is available at the output as analogue signal. The output signal can be transmitted to display instruments, recording instruments, data loggers as well as to process control systems. For winter operation the instrument (4.3151.00.x1x) is equipped with an electronically regulated heating.

Specification

Part number: 4.3151.10.020

Wind direction

Measuring range	0 ... 360 °
Resolution	0,35 °
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

Operating voltage

Potent. / Elektronik	3,3 ... 12 VDC
Current consumption	0,4 mA @ 3,3V 0,5 mA @ 5V 0,8 mA @ 10V 0,9 mA @ 12V

General

Ambient temp.	-50 °C ... +80 °C
Electr. connection	8 pol. plug connection

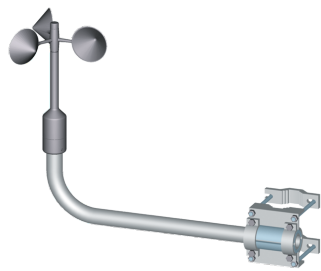
Mounting	on mast tube Ø 1"
Material	aluminium anodised, stainless steel
Protection	IP 55
Dimension	Ø 450 x 410 mm
Weight	0.7 kg
Mounting	Ø 35 x 25 mm

Versions

No other versions of this product are available.

Accessories

Product	Product name	Brief description	
	Traverse for Wind Transmitters "First Class" 4.3174.00.000	For mounting the wind speed transmitter and wind direction transmitter jointly onto a mast.	
		General	
		Height	0.76 m
		Mounting	on mast tube Ø 1,5"
		Material	aluminium, anodised (AlMgSi0.5)
		Sensor distance horizontal	0.6 m
		Sensor distance vertikal	0.2 m
		Weight	3 kg
		Mounting	Ø 34 mm for First Class wind sensors



Hanger 1m First
Class
4.3184.01.000

The hanger is used for the lateral mounting of a wind transmitter, First Class type, onto a mast

General

Length	1 m
Mounting	at mast tube $\varnothing$ 40 ... 80 mm
Material	aluminium (AlMgSi0.5)
Weight	1.5 kg
Mounting	$\varnothing$ 34 mm



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°
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Miscellaneous

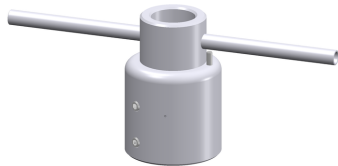
Electrical input	0 ... 30 V
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Operating voltage

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



Northring for
First Class
Windfahne
509619

The adapter is used for the north alignment of a First Class Wind Direction Sensor.

General

Length	75 mm
Material	Alluminum anodized (AlMgSi1)
Weight	0.25 kg
Mounting	for mast Ø 35 mm for sensor Ø 35 mm

