

WIND MEASURING TECHNOLOGY

Wind Direction Transmitter "First Class"

Part number: 4.3151.x0.001

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. For winter operation the instrument (4.3151.00.xxx) is equipped with an electronically regulated heating.



Specification

	Part	number:	4.3151	.x0.001
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0 360 °
see versions
see versions
0.5 m/s at 10 ° acc. to ASTM D 5096-96 0.2 m/s at 90 ° acc. to VDI3786 page 2
1.8 m acc. to ASTMD 5096-96
> 0.3 acc. to ASTMD 5096-96
3.3 42V DC
1.4 mA standby
24 V AC/DC, 25 W
-50 +80 °C



Electr. connection	8 pol. plug connection
Mounting	onto mast tube Ø 1``
Material	aluminium, anodised
Protection	IP 55
Dimension	Ø 450 x 410 mm
Weight	0.7 kg
Mounting	Ø 35 x 25 mm

Versions

As per 4.3151.x0.001, but:

Product number	4.3151.00.001
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Wind direction	
Resolution	0.35 °
Accuracy	±0.75 °
Data output digital	
Protocol	10 bit seriel-synchron

Product number 4.3151.10.001

Wind direction	
Resolution	0.35 °
Accuracy	±0.75 °
Data output digital	
Protocol	10 bit seriel-synchron

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.

0.76 m
on mast tube Ø 1,5``
aluminium, anodised (AlMgSi0.5)
0.6 m
0.2 m
3 kg
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 Ø 40 80 mm	
Material	aluminium (AlMgSi0.5)	
Weight	1.5 kg	
Mounting	Ø 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°
Miscellaneous	
Electrical input	0 30 V
Operating voltage	
Electronic	6 12 V DC
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	