

WIND

Wind Direction Transmitter First Class

Part number: 4.3151.00.00x

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: 4.3151.00.00x

Wind direction	
Measuring range	0 ... 360 °
Resolution	see versions
Accuracy	see versions
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	
Electronic	3.3 ... 42V DC
Current consumption	1.4 mA standby
Heating	24 V AC/DC, 25 W
General	
Ambient temp.	-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
Fixing boring	Ø 35 x 25 mm

Versions

As per 4.3151.00.00x, but:


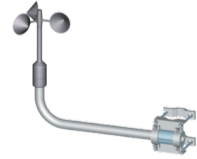
Product number 4.3151.00.000

Wind direction	
Resolution	2.5 °
Accuracy	±1 °
Data output digital	
Protocol	8 bit seriel-synchron

Product number 4.3151.00.001

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. General <table border="1"> <tr> <td>Height</td> <td>0.76 m</td> </tr> <tr> <td>Mounting</td> <td>on mast tube Ø 1,5''</td> </tr> <tr> <td>Material</td> <td>aluminium, anodised (AlMgSi0.5)</td> </tr> <tr> <td>Sensor distance horizontal</td> <td>0.6 m</td> </tr> <tr> <td>Sensor distance vertikal</td> <td>0.2 m</td> </tr> <tr> <td>Weight</td> <td>3 kg</td> </tr> <tr> <td>Fixing boring</td> <td>Ø 34 mm for First Class wind sensors</td> </tr> </table>	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	Fixing boring	Ø 34 mm for First Class wind sensors
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	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 <table border="1"> <tr> <td>Length</td> <td>1 m</td> </tr> <tr> <td>Mounting</td> <td>at mast tube Ø 40 ... 80 mm</td> </tr> <tr> <td>Material</td> <td>aluminium (AlMgSi0.5)</td> </tr> <tr> <td>Weight</td> <td>1.5 kg</td> </tr> <tr> <td>Fixing boring</td> <td>Ø 34 mm</td> </tr> </table>	Length	1 m	Mounting	at mast tube Ø 40 ... 80 mm	Material	aluminium (AlMgSi0.5)	Weight	1.5 kg	Fixing boring	Ø 34 mm				
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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
Fixing boring	for mast Ø 35 mm for sensor Ø 35 mm

