

## WIND

### Wind Direction Transmitter First Class

**Part number: 4.3151.00.xxx**

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 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 (4.3150.00.xxx) is equipped with an electronically regulated heating.



## Specification

**Part number: 4.3151.00.xxx**

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	
Electronic	3.3 ... 42 V 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.xxx, but:

### Product number 4.3151.00.140

<b>Data output analog</b>	
Wind direction	0 ... 20 mA
<b>Operating voltage</b>	
Electronic	15 ... 24 V DC
Current consumption	approx. 4.5 mA + lout

### Product number 4.3151.00.141

<b>Data output analog</b>	
Wind direction	4 ... 20 mA
<b>Operating voltage</b>	
Electronic	15 ... 24 V DC
Current consumption	approx. 4.5 mA + lout

### Product number 4.3151.00.161


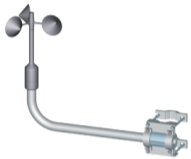
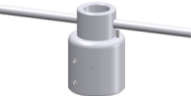
<b>Data output analog</b>	
Wind direction	0 ... 10 V
<b>Operating voltage</b>	
Electronic	15 ... 24 V DC
Current consumption	approx. 4.5 mA

### Product number 4.3151.00.173

<b>Data output analog</b>	
Wind direction	0 ... 5 V
<b>Operating voltage</b>	
Electronic	12 ... 24 V DC
Current consumption	approx. 4.5 mA

## Accessories

Product	Product name	Brief description
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	<p><b>Traverse for Wind Transmitters "First Class"</b> 4.3174.00.000</p>	<p>For mounting the wind speed transmitter and wind direction transmitter jointly onto a mast.</p> <table border="1"> <tr> <td colspan="2"><b>General</b></td> </tr> <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>	<b>General</b>		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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	<p><b>Hanger 1m First Class</b> 4.3184.01.000</p>	<p>The hanger is used for the lateral mounting of a wind transmitter, First Class type, onto a mast</p> <table border="1"> <tr> <td colspan="2"><b>General</b></td> </tr> <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>	<b>General</b>		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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	<p><b>Northring for First Class Windfahne</b> 509619</p>	<p>The adapter is used for the north alignment of a First Class Wind Direction Sensor.</p> <table border="1"> <tr> <td colspan="2"><b>General</b></td> </tr> <tr> <td>Length</td> <td>75 mm</td> </tr> <tr> <td>Material</td> <td>Alluminum anodized (AlMgSi1)</td> </tr> <tr> <td>Weight</td> <td>0.25 kg</td> </tr> <tr> <td>Fixing boring</td> <td>for mast Ø 35 mm for sensor Ø 35 mm</td> </tr> </table>	<b>General</b>		Length	75 mm	Material	Alluminum anodized (AlMgSi1)	Weight	0.25 kg	Fixing boring	for mast Ø 35 mm for sensor Ø 35 mm						
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