

## WIND

### Wind Direction Transmitter "First Class"

**Part number: 4.3151.x0.3xx**

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 (4.3151.10.xxx) is equipped with an electronically regulated heating.



## Specification

**Part number: 4.3151.x0.3xx**

Wind direction	
Measuring range	0 ... 360 °
Accuracy	± 1.5 °
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	< 1.5 m acc. to ASTM D 5096-96
Damping ration	> 0.28 acc. to ASTM D 5096-96
Operating voltage	
Potent. / Elektronik	> 0 ... 30 V DC
Current consumption	= Us / 2 k
Heating	24 V AC/DC, 25 W
General	
Ambient temp.	-50 °C ... +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.x0.3xx, but:

**Product number 4.3151.00.312**

### Data output analog

Wind direction	potentiometer 2 k
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### Operating voltage

Potent. / Elektronik	> 0 ... 30 V DC
Current consumption	= US/ 2 k

### General

Heating	with
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**Product number 4.3151.10.312**

### Data output analog

Wind direction	potentiometer 2 k
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### Operating voltage

Potent. / Elektronik	> 0 ... 30 V DC
Current consumption	= US/ 2 k



### General

Heating	without
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## 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. <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



	<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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