

WIND

Wind Direction Transmitter First Class

Part number: 4.3151.10.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: 4.3151.10.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
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 4.3151.10.xxx, but:

Product number 4.3151.10.140

Data output analog	
Wind direction	0 ... 20 mA
Operating voltage	
Electronic	15 ... 24 V DC
Current consumption	approx. 4.5 mA + I _{out}

Product number 4.3151.10.141

Data output analog	
Wind direction	4 ... 20 mA
Operating voltage	
Electronic	15 ... 24 V DC
Current consumption	approx. 4.5 mA + I _{out}

Product number 4.3151.10.161


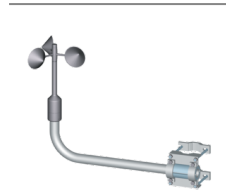
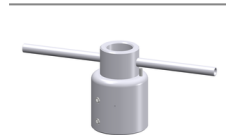
Data output analog	
Wind direction	0 ... 10 V
Operating voltage	
Electronic	15 ... 24 V DC
Current consumption	approx. 4.5 mA

Product number 4.3151.10.173

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

Accessories

Product	Product name	Brief description
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	<p>Traverse for Wind Transmitters "First Class" 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">General</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>	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	Fixing boring	Ø 34 mm for First Class wind sensors
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	<p>Hanger 1m First Class 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">General</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>	General		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>Northring for First Class Windfahne 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">General</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>	General		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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