

WIND MEASURING TECHNOLOGY

Wind Transmitter "First Class" Advanced

Part number: 4.3352.10.000

The wind transmitter is designed for the acquisition of the horizontal component of the wind velocity in the field of meteorology and environmental measuring technology, evaluation of location, and measurement of capacity characteristics of wind power systems. In the plain country the wind transmitter meets all requirements of IEC 61400-12-1 Edition 2.0 for an Instrument of the accuracy class 0.9.

Special characters are a defined and optimised, dynamic behaviour also at high turbulence intensity, minimal over-speeding, and a low starting value.

The measuring value is available at the output as digital signal. It can be transmitted to display instruments, recording instruments, data loggers as well as to process control systems.



Specification

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Wind speed

Measuring range	0 ... 75 m/s
Accuracy	1 % of meas. value (0.3 ... 50 m/s) or ± 0.2 m/s
Linearity	$r > 0.99999$ (4 ... 20 m/s)
Inclined flow	0.1% (mean deviation from cosinus line at 12 m/s ; $\pm 20^\circ$)
Delay distance	3 m (aac. to ASTM D 5096-96)

Data output digital

Frequency	1082 Hz @ 50 m/s
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Operating voltage

Electronic	3.3 ... 48 V DC 130 μ A from 3,3 ... 15 V 180 μ A $>$ 15 V ... 48 V
Heating	without Heating

General



Ambient temp.	-50 ... +80 $^\circ$ C
Electr. connection	8 pol. plug connection
Mounting	onto mast tube \varnothing 1''

Protection	IP 55
Survival speed	80 m/s (min. 30 minutes)
Weight	0.5 kg
Mounting	Ø 35 x 25 mm
Material housing	aluminium, anodised
Material cup star	carbon-fiber glass reinforced

Versions

No other versions of this product are available.

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>Mounting</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	Mounting	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>Mounting</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	Mounting	Ø 34 mm				
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