WIND

Wind Transmitter "First Class" Advanced

Part number: 4.3352.00.000

The wind transmitter is designed for the acquisition of the horizontal component of the wind velocity in the field of meteorology and environ- mental 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.

For winter operation the instrument (4.3352.00.000) is equipped with an electronically regulated heating, which guarantees a smooth running of the ball bearings, and prevents the shaft and slot from icing-up.

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 at12 m/s ; ±20 °)
Delay distance	‹ 3 m (aac. to ASTM D 5096-96)
Data output digital	
Frequency	1082 Hz @ 50 m/s
Operating voltage	
Electronic	3.3 ... 48 V DC 130 µA from 3,3 ... 15 V 180 µA › 15 V ... 48 V
Heating	24 V AC/DC, max 25 W
General	
Ambient temp.	-50 ... +80 °C
Electr. connection	8 pol. plug connection
Mounting	onto mast tube Ø 1``
Protection	IP 55
Survival speed	80 m/s (min. 30 minutes)
Weight	0.5 kg
Fixing boring	Ø 35 x 25 mm

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Matirial 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
		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
	**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
		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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