

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 ASTMD 5096-96	
Damping ration	> 0.3 acc. to ASTMD 5096-96	
Operating voltage		
Electronic	3.3 42 V DC	
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``	

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Material	aluminium, anodised		
Protection	IP 55		
Dimension	Ø 450 x 410 mm		
Weight	0.7 kg		
Mounting	Ø 35 x 25 mm		

Versions

As per 4.3151.00.xxx, but:

Product number 4.3151.00.140		
Data output analog		
Wind direction	0 20 mA	
Operating voltage		
Electronic	15 24 V DC	
Current consumption	approx. 2.9 mA + lout	

Data output analog		
Wind direction 4 20 mA		
Operating voltage		
Electronic	15 24 V DC	
Current consumption	approx. 2.9 mA + lout	

Product number 4.3151.00.161		
Data output analog		
Wind direction	0 10 V	
Operating voltage		
Electronic	15 24 V DC	
Current consumption	approx. 2.9 mA + lout	

Product number 4.3151.00.173

Data output analog	
Wind direction	0 5 V
Operating voltage	
Electronic	12 24 V DC

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Current	consum	ption
cuncin	consum	ριιοι

approx. 2.9 mA + lout

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	
		Mounting	Ø 34 mm for First Class wind sensors	
¢ •	Hanger 1m First Class	The hanger is used for the la	ateral mounting of a wind transmitter, First Class type, onto a mast	
	4.3184.01.000	General		
		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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Geovane 4.3190.00.900

The product set combines the precise wind vanes from Thies CLIMA with the advanced Geovane from Kintech Engineering. The Geovane uses GPS and the sun position to automatically determine the exact north direction 1° accurate. This combination ensures the highest accuracy of wind direction against the geographic north point as a reference.

- Geovane for automatic north correction
- 1° precise wind vanes from Thies CLIMA
- Wind vane and geovane are preconfigured
- Ideal e.g. for site surveys, power curve monitoring and meteorology

Wind direction			
Measuring range	0 380 °		
Resolution	0.06° RS-485		
	0.11° Analog voltage outputs		
	0.06 0.16° Frequency output		
Accuracy	1°		
Miscellaneous			
Electrical input	0 30 V		
Operating voltage			
Electronic	6 12 V DC		
General			
Ambient temp.	-25 +85 °C		
Mounting	Onto mast tube Ø34mm		
Protection	IP 67		
Measuring time	1, 5, 10, 30, 60 seconds		
Weight	0,815 kg		



Northring for First The adapter is used for the north alignment of a First Class Wind Direction Sensor.

509619		
	General	
	Length	75 mm
	Material	Alluminum anodized (AlMgSi1)
	Weight	0.25 kg
	Mounting	for mast Ø 35 mm for sensor Ø 35 mm

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