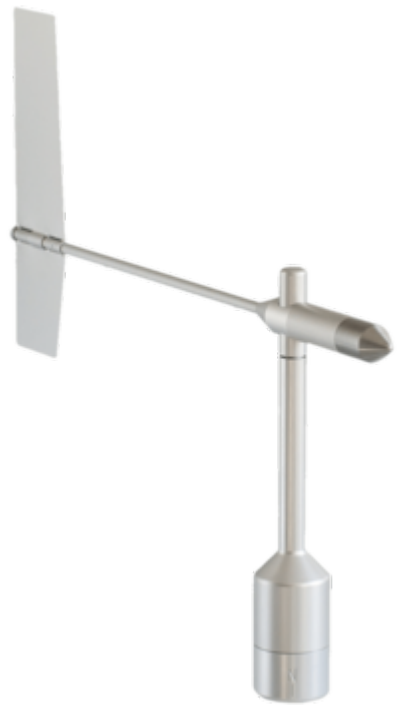
Wind Direction Transmitter ”First Class“

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``

Phone: +49 551 / 79001-0 · info@thiesclima.com · www.thiesclima.com

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 + Iout

Product number 4.3151.00.141	
Data output analog	
Wind direction	4 ... 20 mA
Operating voltage	
Electronic	15 ... 24 V DC
Current consumption	approx. 2.9 mA + Iout

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 + Iout

Product number 4.3151.00.173	
Data output analog	
Wind direction	0 ... 5 V
Operating voltage	
Electronic	12 ... 24 V DC

Current consumption	approx. 2.9 mA + Iout

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 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 Mounting: Ø 34 mm

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 Class Windfahne
509619

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

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