

## Wind Direction Transmitter "First Class"

**Part number: 4.3151.00.400**

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 digital signal. The output signal can be transmitted to display instruments, recording instruments, data loggers as well as to process control systems.

Characteristic:

The WD transmitter can acquire the WS signals of 4.3352.x.000, and add the parameter wind speed to its serial data telegram



## Specification

**Part number: 4.3151.00.400**

### Wind direction

|                   |  |
|-------------------|--|
| Measuring range   | 0 ° ... 360 °  |
| Resolution        | 0.1 °  |
| Accuracy          | ±1 °   |
| Starting value    | 0.5 m/s at 10 °<br>acc. to ASTM D 5096-96<br>0.2 m/s at 90 °<br>acc. to VDI3786 page 2 |
| Distance constant | 1.8 m<br>acc. to ASTM D 5096-96  |
| Damping ration    | > 0.3<br>acc. to ASTM D 5096-96  |

### Data output digital

|           |                     |
|-----------|---------------------|
| Interface | RS485               |
| Baudrate  | 1200 ... 57600 Baud |
| Protocol  | ASCII               |

### Operating voltage

|                     |   |
|---------------------|---|
| Electronic          | 3.3 ... 42V DC                                      |
| Current consumption | 0.5 mA without data query<br>1.0 mA with data query |

|                    |   |
|--------------------|---|
| Heating            | 24 V AC/DC, 25 W  |
| <b>General</b>     |   |
| Ambient temp.      | -50 ... +80 °C, all occurring situations of rel. humidity |
| Electr. connection | 8 pol. plug connection                                    |
| Mounting           | onto mast tube Ø 1 ``                                     |
| Material           | aluminium anodised, stainless steel                       |
| Protection         | IP 55   |
| Dimension          | Ø 450 x 410 mm  |
| Weight             | 0.7 kg  |
| Mounting           | Ø 35 x 25 mm  |

## Versions

No other versions of this product are available.

## Accessories

| Product | Product name | Brief description |
|---------|--------------|-------------------|
|---------|--------------|-------------------|



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

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#### Wind direction

|                 |  |
|-----------------|--|
| Measuring range | 0 ... 380 °  |
| Resolution      | 0.06° RS-485<br>0.11° Analog voltage outputs<br>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                 |