

Wind Transmitter "First Class" Advanced

Part number: 4.3351.00.000

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 for an Instrument of the accuracy class 0.5.

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 (4.3351.00.000) 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

Part number: 4.3351.00.000

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) |
| Delay distance | 3 m (aac. to ASTM D 5096-96) |

Data output digital

| | |
|-----------|-------------------|
| Frequency | 1082 Hz at 50 m/s |
|-----------|-------------------|

Operating voltage

| | |
|------------|--|
| Electronic | 3.3 ... 48 V DC 130 μ A from 3,3 ... 15 V 180 μ A $>$ 15 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 \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 |
| 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 <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 | | | | |
| Length | 1 m | | | | | | | | | | | | | | | |
| Mounting | at mast tube Ø 40 ... 80 mm | | | | | | | | | | | | | | | |
| Material | aluminium (AlMgSi0.5) | | | | | | | | | | | | | | | |
| Weight | 1.5 kg | | | | | | | | | | | | | | | |
| Mounting | Ø 34 mm | | | | | | | | | | | | | | | |