

Instruction for Use

021474/11/05

Wind Simulator

4.3434.50.000



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1 Models

| Order-No. | Simulation Data of Wind transmitter | Elect. Output Wind speed | Elect. Output Wind direction | Supply |
|----------------|-------------------------------------|--|------------------------------|-----------------|
| 4.3434.50.0000 | 4.3336.31.0000 | 200 Hz = 10 m/s or 800 Hz = 40 m/s | Thies serial 0 ... 360° | +5 V DC / 20 mA |

2 Adapter (optionally available)

| Order-No. | Cable length | Plug on simulator side | Plug on probe side | Probe |
|---------------|--------------|------------------------|--------------------|---------------|
| 4.3434.51.011 | 1 m | 9 pole D- plug | 21 pole plug | 9.5026.02.261 |

3 Application

The wind simulator serves for the function test of wind measuring devices. It substitutes the wind transmitter for test purposes, for ex. with maintenance or start of operation, and simulates data of wind speed and wind direction. By means of a respective adapter cable, the wind simulator can be connected directly to the wind measuring device. Adaptor cables are optionally available.

4 Mode of Operation

The wind simulator simulates the wind transmitter data.

Wind speed.

An integrated frequency generator provides one of two selectable pulse frequencies at the output.

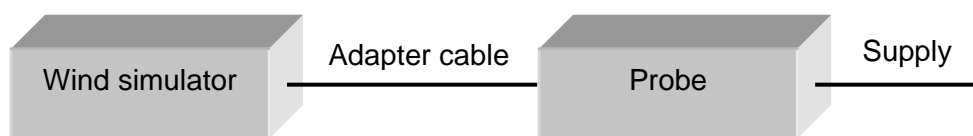
Wind direction:

An adjustable angle (adjustable in 1°-increments) is converted into a serial-synchronous signal by means of an electronics and is output then.

5 Electrical Connection with optionally available Adaptor

Attention:

Storing, mounting, and operation under weather conditions is permissible only in precipitation protected ambience, as otherwise water can get into the instrument.



The wind simulator is to be connected to the probe via an adapter cable (for ex. transmitter electronics to wind display LED) acc. to the above-given figure. After the supply voltage of the probe has been switched on the wind simulator is ready for operation.

6 Performance of the Test

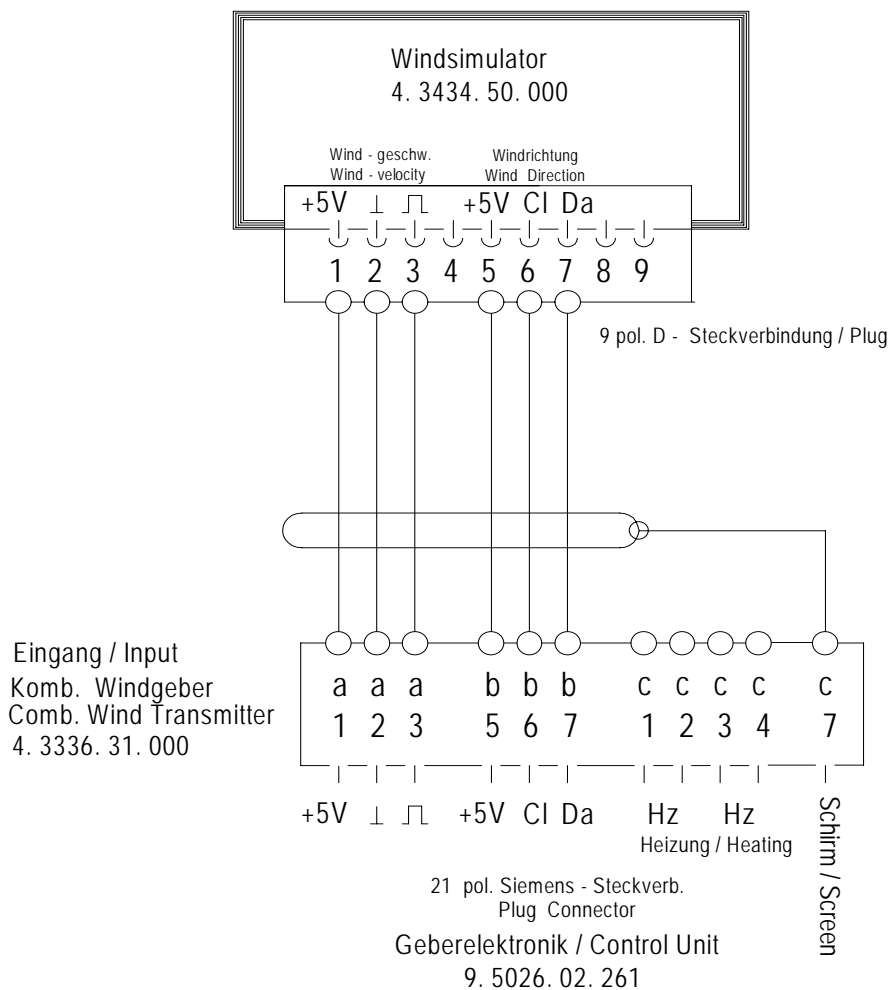
6.1 Wind Speed

Through the position of the lever key a respective frequency is activated which corresponds to the imprinted wind speed (10 or 40 m/s). The set measuring value is to be measured at the probe or to be read-off respectively. In case a different value is indicated, the error cause has to be found out .

6.2 Wind direction

According to the selected value at the digit switch a serial signal is activated which corresponds to the wind direction value. The set measuring value is to be measured at the probe or to be read-off respectively. In case a different value is indicated, the error cause has to be found out.

7 Connecting Diagram



8 Technical Data

| Feature | Description |
|-------------------|---|
| Selectable values | Wind direction 0 ... 360 in 1°-increments Wind speed 10 m/s and 40 m/s |
| Output signal | Wind direction 8 Bit serial, 2,5° resolution Wind speed 200 Hz = 10 m/s, 800 Hz = 40 m/s |
| Electrical supply | +5 V DC / 20 mA (carried out by the probe) |
| Connection | 9-pole D- plug (see connecting diagram) |
| Dimensions | 120 x120 x 57 mm |
| Weight | ca. 0,5 kg |
| Protection | IP 20 (DIN 40050) |



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