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Description

Anemometer **Ultrasonic 1D**

The Ultrasonic Anemometer 1D serves for the acquisition of the horizontal air flow and direction in tunnels, tubes or similar applications. Due to the high measuring rate the instrument can be used also for the inertia-free measurement of gust- and peak-values.

The measuring values are available as analogue signals and/or data telegram.

The analogue output of the flow speed is effected with or without direction detecting.

The digital output of the flow speed is effected with direction detecting, and virtual-temperature.

If necessary, the sensor branches are automatically heated with critical ambient temperatures. Thus, the function is guaranteed also with negative temperatures.

Wind Transmitter

for tunnel application

For the measurement of directional air flows especially in tunnels. Instrument sends frequency signals, depending on speed and related to the flow direction.

Instrument is equipped with a mounting bar.

Suitable for connection to the Measuring Transducer TW, order-no. 4.3348.xx.xxx

Order-No.

Technical Data

4.3860.00.340

0 - 20 m/s Flow Speed Meas. range 0.1 m/sResolution

± 0.1 m/s (0 - 5 m/s) ± 2% rms (> 5 m/s) Accuracy

Direction detecting

Meas. range Virtual Temp.

- 40 - + 70 °C Meas, range Resolution 0,1 K Accuracy ± 0.5 K

Data output digital

Interface Baud rate Output Status identification RS 485 / 422 9600 10 sec. gliding mean value heating, path disturbance

1° / 181°

Data output analogue

Electr. output only WS and WD output

0 - 20 mA (< 250 W)

10 sec. gliding mean value

Operating voltage w/o heating with heating Electr. connection Housing material **Dimensions** Protection Weight

12 - 24 V AC/DC, 3 VA 24 V AC/DC, 70 VA 3 m cable stainless steel, V4A 420 x 270 mm IP 66 2.5 kg

4.3308.10.000

Measuring range Resolution

Delay distance Electr. output

Propeller type

Dimension Operating voltage Current supply Ambient temp. Cable

Dimensions Weight

0.3 ... 20 m/s approx. 0,05 m wind run

3.3 m 0 ... 410 Hz resp. 418 Hz 4-blade, polypropylene Ø 180 mm 15 V DC (10 - 16 V DC)

approx.. 15 mA -20 ... +70 °C, ice-free 3 m, LiYCY 4 x 0.25 mm² Ø 200 x 350 mm

5 kg





Measuring transmitter for directional air flows.

Applications:

- Air Channels Shafts
- Climatic Ducts
- Street and Railway Tunnels