



Highest Precision

Compact Design

Temperature

Rel. Humidity

Air Pressure

metek Messtechnik GmbH
 Gewerbegebiet 8 | D-78467 Konstanz
 Made in Germany

PRODUCT INFO

WINDSOND Anemometer
 METEK TF ID: 4310.2311
 OUT: 24VDC/10A
 OUT: CAN open
 250kbit/s
 Node-ID: 48

THE 2D ULTRASONIC ANEMOMETER METEO VERSION

METEK GmbH and MESA Systemtechnik are proud to present the Meteo Version 2D Ultrasonic Anemometer.

Experts in Airflow Simulation, Transducer Technology, Hardware Design and Software Development have combined their latest knowledge to create an outstanding product. We developed a high precision 2D Ultrasonic Anemometer which is designed to meet the demands of today's customer applications.

TECHNICAL DATA



WIND SPEED

RANGE0..75 m/s, 0..100 m/s
ACCURACY (for 0..75 m/s) $v \leq 5$ m/s: ± 0.1 m/s
(rms, mean over 360°);
 $v > 5$ m/s: ± 1.5 % of measurement
value (rms, mean over 360°)
RESOLUTION0.1 m/s or 0.01 m/s
STARTING THRESHOLD0.1 m/s

WIND DIRECTION

RANGE0..359°
ACCURACY $\pm 0.3^\circ$ RMS (at $v > 5$ m/s), $\pm 0.5^\circ$ absolute
RESOLUTION1° or 0.1°

METEO PARAMETERS

AIR PRESSURE300..1100 hPa
AIR HUMIDITY0..100 % rH
AIR TEMPERATURE.....-55..+80 °C
AIR DENSITY0.4..1.5 kg/m³ (calculated)
DEW POINT TEMPERATURE.. °C (calculated)

DATA OUTPUT

SERIAL INTERFACERS422 full duplex / RS485 half duplex
(1200..115200 Baud),
CAN/CANopen (10 kbit/s..1 Mbit/s)
ANALOGUE OUTPUT0 /4..20 mA or 0/2..10 V (16Bit)
PROTOCOLSASCII / MODBUS / NMEA
POWER SUPPLY9..36 VDC / 100 mA; 24 VDC
(+15 %, -50 %) with add. body heating

DIMENSIONS

SIZE \varnothing 220x221 mm
HOUSING MATERIALStainless Steel V4A,
WEIGHT1.4 kg

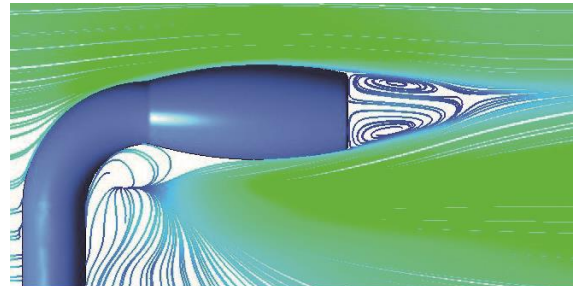
ENVIRONMENTAL

HOUSINGIP67
OPERATING TEMP-55..+70 °C (with add. body heating)

OPTIMIZED DESIGN

The hardware design of the 4310 is made by our experts with the latest Air-Flow-Simulation Software.

By reducing the turbulences to a Minimum, the accuracy is increased to a Maximum.



CERTIFICATES

- EMC Test
- Wind Speed Accuracy Tests
- Blowing Sand Test based on AECPT 300, method 313
- Temperature Test
- Altitude Test
- Dust Test IP6X according to DIN EN 60529
- Water Test IPX7 according to DIN EN 60529
- Solar Irradiation according to DIN EN 60068-2-5
- Vibration Tests
- Mechanical Shock according to IEC 60068-2-27
- Bump Test according to IEC 60068-2-29
- Drop Tests
- Icing Tests

PLEASE CONTACT US:

METEK

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