

ULTRASONIC WIND SENSOR

8371.UM

Extremely precise and maintenance-free measurement of wind velocity and wind direction as well as calculation of acoustic virtual temperature.

Specifications:

Dimensions : Ø approx. 150 mm,
height approx. 170 mm

Weight : approx. 1.62 kg

Wind direction

Principle : Ultrasonic
Measuring range : 0 ... 359.9 °
Accuracy : < ± 2 ° RMSE > 1.0 m/s

Wind speed

Principle : Ultrasonic
Measuring range : 0 ... 75 m/s
Accuracy : ± 0.2 m/s or ± 2% RMSE
(bigger value)

Virtual temperature

Principle : Ultrasonic
Measuring range : -50 °C ... +70 °C
Resolution : 0.1 °C
Accuracy : ± 2.0 C (without heater and without sun exposure or wind > 4m/s)
Measuring rate : 60 partial measurement, 15 full measurements per second

Pressure

Principle : MEMS (Micro-electromechanical systems) capacitive
Range : 300 ... 1200 hPa
Accuracy : ± 1.5 hPa resp. ± 0.5 hPa in 0 ... +40°C

Ambient temperature : -40..+60 °C (with heating)
-20..+60 °C (without heating)

Bus operation : up to 32 devices

Operating voltage : 24 VDC ± 10% or 24 VDC / 1.2VA

Electronics : without heating: 12 VDC
with heating: 24 VDC, max. 240 VA (140 W + 100 W)

Electr. connection : 8 pole plug

Housing material : Aluminium, seawater-proof

Protection type : IP 66

Ø mounting pole : 50 mm / 2"

Factory certificat : yes



Optional accessories

Surge protection : 8379.USP-V

Connection cable, 15m : 8371.UK015

Connection cable, 50m : 8371.UK050

DR. ALFRED MÜLLER
METEOROLOGISCHE INSTRUMENTE KG
Chausseestraße 39 / 42c
D-15712 Königs Wusterhausen

Tel.: +49 3375 9025-32
Fax: +49 3375 9025-36
e-mail: dr.a.mueller-r.fuess@t-online.de
www.rfuess-mueller.de