

# HUMIDITY-TEMPERATURE SENSOR



## Really tough...

is the precision instrument and therefore proves to be equal to the high demands of meteorology, industry, navy and army.

The galvanized brass housing and the sinter filter as sensor protection are part of the high-quality construction.

They care for good resistance of the instrument against air pollutants.

- extremely robust
- long-term stable
- large temperature range of application
- easy maintenance
- high accuracy
- recalibratable
- EMC fit

automatic weather stations in all climates • sensor for professional meteorological, industrial and military application • ship weather stations



## Professional Line

## (8092 MIL) Humidity-Temperature Sensor

Id-No. 00.08092.250 402

Measuring elements:

capacitive • platinum thermometer (Pt100 1/5 DIN-class B)

Measuring range:

0...100% r. h. • -40...+60°C

Accuracy at 23°C:

± 1.5% r. h. (10...95% r. h.) • ± 2.5% r. h. (< 10% / > 95% r. h.) • ± 0.06°C

Time constant:

humidity < 10 s • temperature < 15 s • at 23°C and 1 m/s

Long-term stability:

typical under normal conditions < 1% r. h./ year

Outputs:

0...1 V<sub>DC</sub> = 0...100% r. h. • load > 1000 Ω • Pt100 (4-wire circuit)

Supply voltage:

10...30 V<sub>DC</sub>

Current consumption:

max. 2.5 mA

Housing:

brass, nickel-plated • IP 43 • sinter filter as sensor protection

Dimensions/ Weight:

H 190 mm • Ø 25 mm • 0.6 kg • assembled feed cable of 3.3 m

Standards:

CE/ EMC: DIN 50082-2 • DIN 50081-1 • VG 95 373, decoupling stage 3

Accessories:

00.08141.200 000

(8141.2) Sensor shelter for (8092 MIL) see page 100.

Further accessories see page 45.

