

HUMIDITY-TEMPERATURE SENSOR



The high standard...

of the instrument is marked by the high-quality, capacitive humidity measuring element as well as the platinum temperature measuring resistance. They fulfil the superior demands of meteorology and industry.

Application in large temperature ranges as well as in low humidity, e.g. in desert areas, has gained the sensor trust.

- small, light, compact
- easy installation, robust
- low power consumption
- nearly maintenance free, long-term stable
- high accuracy

- automatic weather stations
- traffic systems
- buoys
- agricultural weather stations
- energy supply and disposal systems
- environmental measurement technology
- building systems

Professional Line

(8092)

Humidity-Temperature Sensor

Id-No. 00.08092.130 402

Measuring elements:

Measuring range:

Accuracy at 23°C:

Time constant:

Long-term stability:

Outputs:

Supply voltage:

Current consumption:

Housing:

Dimensions/ Weight:

Standards:

Accessories:

32.08092.060 000

00.08141.300 000

capacitive • platinum thermometer (Pt100 1/3 DIN-class B)

0...100% r. h. • -40...+60°C

± 1.5% r. h. (10...95% r. h.) • ± 2.5% r. h. (< 10%/ > 95% r. h.) • ± 0.1°C

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

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

0...1 V_{DC} = 0...100% r. h. • load > 1000 Ω • Pt 100 (4-wire circuit)

10...30 V_{DC}

max. 2.5 mA

synthetic MP100 • IP 43 • white • wire filter as sensor protection

H 210 mm • Ø 25 mm • 0.1 kg

CE/ EMC: DIN 50082-2 • DIN 50081-1

(8092 U60) Cable 3.3 m for (8092)

(8141.3) Sensor shelter for (8092) see pages 100 and 108 f.

Further accessories see pages 45.

