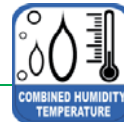


HUMIDITY-TEMPERATURE SENSOR



manual

Combined - for two parameters !



Aloft...

or at the roadside this humidity-temperature sensor (8093.1) is most commonly used.

The instrument is characterized by the high-quality measuring elements, robust housing, reliable membrane filter and low-current electronics. Thus the sensor (8093.1) is especially suitable for meteorological outdoor measurements in very different application fields.

- small, light, compact
- easy installation, robust, nearly maintenance free
- low power consumption
- good dynamical behaviour
- reliable membrane filter as protection against pollutants
- high long-term stability and nearly linear characteristic line

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

| Professional Line | (8093.1) Humidity-Temperature Sensor | Id-No. 00.08093.100 000 |
|-------------------------|---|-------------------------|
| Measuring elements: | capacitive • Pt100 1/3 DIN • IEC 751 class B | |
| Measuring range: | 0...100% r. h. • -30...+70°C | |
| Accuracies: | ± 2 % r. h. at 5...95 % r. h. • +10...+40 °C Plus: < 0.1% r. h. at < +10°C and > +40°C ± 0.2 °C at -27...+70 °C Plus: ± 0.007°C/ °C at < +10°C and > +40°C | |
| Time constant: | humidity < 20 s (without wind and filter, otherwise at 1.5 m/s: 1.5 min) | |
| Long-term stability: | typical under normal conditions < 1 % r. h./ year | |
| Outputs: | 0...1 V _{DC} = 0...100% r. h. • min. load resistance ≥ 2.5 kΩ • Pt100 (4-wire circuit) | |
| Supply voltage: | 10...30 V _{DC} | |
| Current consumption: | < 1 mA | |
| Housing: | aluminium • lacquered • grey-white • IP 65 • membrane filter as sensor protection IP 30 • incl. 5 m cable | |
| Dimensions/ Weight: | H 122 mm • Ø 20 mm • approx. 0.3 kg | |
| Standards: | CE/ EMC: DIN 50082-2 • EN 550011 Cl. B | |
| Accessories: | | |
| 00.08141.400 000 | (8141.4) Sensor shelter for sensor (8093.1) Data logger TROPOS | |