

TH[pro]NAV TEMPERATURE-HUMIDITY SENSOR



The sensor TH[pro]NAV ...

for maritime use is a measuring instrument for measuring relative humidity and air temperature. The sensor is characterised by high accuracy and a power-saving electronic. The sinter filter reliably protects the capacitive measuring element from air pollutants.

- combined measuring instrument for high-quality use
- capacitive humidity measuring element
- low maintenance
- special resistance to air pollutants
- signal output: RS 422/ Talker • NMEA • Modbus
- for use in all climatic zones
- suitable sensor shelter type 8141.6 (recommended option)

APPLICATIONS

- high-quality use in meteorology and on ships

| Professional Line | TH[pro]NAV Temperature-Humidity Sensor |
|--------------------------------|---|
| Id-No. | 00.08095.101001 |
| Meas. range air temperature | -40...+70 °C |
| Meas. range rel. humidity | 0...100 % r.h. |
| Accuracy air temperature | ± 0.1 K (0...60 °C) • ± 0.2 K (-40...0 °C) |
| Accuracy rel. humidity | typ. ± 1.5 % (0...80 %) r. h. • ± 2 % (> 80 %) r. h. • Reaction time rel. humidity (at v = 1.5 m/s): 30 s |
| Resolution air temperature | 0.1 °C |
| Resolution rel. humidity | 0.1 % r.F. |
| Protocols | NMEA 0183 · WIMHU · WIMTA |
| Interface | Serial RS 422/ Talker • Baudrate 4800 • 1 Hz • 8 N 1 • Modbus RTU • (SDI-12 on request) |
| Supply voltage | 4.8...33 V DC |
| Power consumption | 4 mA at 24 VDC • 6 mA at 12 V DC • 11 mA at 4.8 VDC • without terminating resistor |
| Dimensions | H 140 mm x Ø 20 mm |
| Housing | Aluminium especially-coated • M12 plug connector (4-pole) |
| Protection class | IP 65 (housing) |
| Weight | approx. 80 g |
| Accessories (order separately) | 00.08141.600000 Sensor shelter with natural ventilation |
| | 00.08141.600004 Sensor shelter with artificial ventilation |
| | 32.14567.060010 sensor cable, 15 m, 4 pole, M12 plug |
| | 32.14567.060000 sensor cable, 12 m, 4 pole, M12 plug |

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