

TH[pro]NAV TEMPERATURE-HUMIDITY SENSOR



High-quality use on ships

TH[pro]NAV for maritime use is a sensor 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 device for demanding applications
- Capacitive humidity measuring element
- Low maintenance and service friendly
- Signal output: RS 422/Talker; NMEA; Modbus
- For use in all climatic zones
- Suitable sensor protection housing type 8141.6 (recommended option)

APPLICATIONS

- Meteorology
- Maritime

Professional Line	TH[pro]NAV
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
Standards	DIN EN 60945 DIN EN 61000-4-2, 3, 4, 6, 11 MIL-STD-810G EN 60529: 1991 + A1:2000 + A2:2013 Cold test Ad DIN EN 60068-2-1 (01/2008) Condensation test CH acc. ISO 6270-2 (09/2005) and DIN EN ISO 12944-6 (07/1998), category C4 Salt test acc. DIN EN ISO 7253 (04/2002) and DIN EN ISO 12944-6 (07/1998), category C4

PRODUCT-VIEW

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



AN **aem** BRAND of: 27.04.2024