

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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