

# THP[pro]NAV TEMPERATURE-HUMIDITY-PRESSURE SENSOR



For maritime use

THP[pro]NAV for maritime use is a sensor for measuring relative humidity, air temperature and air pressure. The sensor is characterised by high accuracy and a power-saving electronic. The sinter filter reliably protects the capacitive measuring element from air pollutants.

- Combination measuring device for demanding applications
- Capacitive humidity measuring element
- Low maintenance and service friendly
- For use in all climatic zones
- Suitable sensor protection housing type 8141.62 (recommended option)

## APPLICATIONS

- Meteorology
- Maritime

Professional Line	THP[pro]NAV
Id-No.	00.08095.201000
Meas. range air temperature	-40...+70 °C
Meas. range rel. humidity	0...100 % r.h.
Meas. range barometric pressure	500...1100 hPa
Accuracy air temperature	± 0.1 K (0...60 °C) ± 0.2 K (-40...0 °C) ± 0.2 K (60...70 °C)
Accuracy rel. humidity	typically at 25 °C: ± 1 % (20...70 %) r. h. ± 1.5 % (0...20 %) r. h. ± 1.5 % (70...90 %) r. h. ± 3 % (90...100 %) r. h.
Accuracy barometric pressure	typically 0.38 hPa (700... 1100 hPa) (15...55 °C)
Resolution air temperature	0.1 °C

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Professional Line	THP[pro]NAV
Resolution rel. humidity	0.1 % r.h.
Resolution barometric pressure	0.1 hPa
Protocols	NMEA 0183 (default) · WIMHU · WIMMB · WIMTA
Interface	Serial RS 422/ Talker • Baud rate 4800 • 1 Hz • 8 N 1 • (SDI-12 on request)
Supply voltage	4.8...33 VDC
Power consumption	4 mA at 24 VDC • 6 mA at 12 VDC • 11 mA at 4.8 VDC
Dimensions	H 140 mm x Ø 20 mm
Housing	Aluminium especially-coated • M12 connector plug (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 mist test acc. DIN EN ISO 7253 (04/2002) and DIN EN ISO 12944-6 (07/1998), category C4
Accessories (order separately)	00.08141.620000 Sensor shelter NAV with natural ventilation 00.08141.630000 Sensor shelter Yacht with natural 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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