

THP[pro]NAV TEMPERATURE-HUMIDITY-PRESSURE SENSOR



The sensor THP[pro]NAV ...

for maritime use is a measuring instrument 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.

- combined measuring instrument for high-quality maritime 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 typ 8141.62 (recommended option)

APPLICATIONS

- high-quality use in meteorology and on ships

Professional Line	THP[pro]NAV Temperature-Humidity-Pressure Sensor
Id-No.	00.08095.101000
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)
Accuracy rel. humidity	± 1.5 % (0...80 %) r. h. • ± 2 % (>80 %) r. h. • Reaction time relative humidity (at v = 1,5 m/s): 30 s
Accuracy barometric pressure	± 2 hPa (-30...+70 °C) • ± 1 hPa (-10...+60 °C) • ± 0.5 hPa at 25 °C
Resolution air temperature	0.1 °C

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Professional Line	THP[pro]NAV Temperature-Humidity-Pressure Sensor
Resolution rel. humidity	0.1 % r.h.
Resolution barometric pressure	0.1 hPa
Protocols	NMEA 0183 (default) · WIMHU · WIMMB · WIMTA · Modbus RTU
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	NMEA 0183 · WIMHU · WIMMB · WIMTA
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

As of: 21.09.2020