



COMBINED SENSOR "THP[pro]NAV"

Temperature · Humidity · Pressure

The sensor THP[pro]NAV...

is a combined measuring instrument for measuring relative humidity, air temperature and air pressure.

The sensor is characterised by high accuracy and a power-saving electronic. The membrane 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 humidity: RS 422/ Talker · NMEA · Modbus
- for use in all climatic zones
- suitable sensor shelter Type 8141.62 (recommended option)

high-quality use in meteorology and on ships



Professional Line

THP[pro]NAV Sensor

Id-No. 00.08095.101000

Temperature

Measuring range:

-40...+70 °C

Resolution:

0.1 °C

Accuracy:

± 0.1 K (0...60 °C) • ± 0.2 K (-40...0 °C) ¹⁾

Relative humidity

Measuring range:

0...100 % r. h.

Resolution:

0.1 % r. h.

Accuracy:

typ. ± 1.5 % (0...80 %) r. h. • ± 2 % (> 80 %) r. h. ¹⁾ • Reaction time rel. humidity (at v = 1.5 m/s): 30 s ²⁾

Barometric pressure

Measuring range/Resolution:

500...1100 hPa • 0.1 hPa

Accuracy:

± 2 hPa (-30...+70 °C) • ± 1 hPa (-10...+60 °C)

Further technical data

Supply voltage:

4.8...33 VDC

Current consumption ³⁾:

4 mA at 24 VDC • 6 mA at 12 V DC • 11 mA at 4.8 VDC

Housing:

Aluminium especially-coated • IP 65 (housing) • M12 plug connector (4-pole)

Weight/Dimensions:

approx. 80 g • H 140 mm x Ø 20 mm

Interface:

Serial RS 422/ Talker • Baudrate 4800 • 1 Hz • 8 N 1 • Modbus RTU • (SDI-12 on request)

Protocols:

NMEA 0183 · WIMHU · WIMMB · WIMTA

Accessories: (please order separately)

Sensor shelters: 00.08141.620000 (for maritime use) • 00.08141.630000 (yacht version)

¹⁾ ventilated sensor shelter recommended ²⁾ with filter membrane ³⁾ without terminating resistor