

THP[pro] TEMPERATURE-HUMIDITY-PRESSURE SENSOR

IP 65
PROTECTION
RATING

M12
PLUG
CONNECTOR

NMEA
DATA
PROTOCOL

AI
METAL
MATERIAL



Proven measurement technology

Now with improved accuracy!

The sensor THP[pro] is a combined measuring instrument for measuring relative humidity, air temperature and air pressure. The sensor is characterised by high accuracy and energy-saving electronics. Also with Modbus or customised protocols realisable!

- combined measuring instrument for high-quality use
- capacitive humidity measuring element
- low maintenance
- signal output: SDI-12 • NMEA • Modbus
- for use in all climatic zones
- suitable sensor shelter type 8141.6 (recommended option)

APPLICATIONS

- hydrology
- building technology
- power plants
- industry

Professional Line	THP[pro]
Id-No.	on request
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	typ. ± 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]
Resolution rel. humidity	0.1 % r.h.
Resolution barometric pressure	0.1 hPa
Protocols	SDI-12
Interface	SDI-12 *)
Supply voltage	4.8...33 V DC
Power consumption	Without terminating resistor: 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
Options (order separately)	*) Service: 97.08095.000010 · Pre-configuration of the standard THP[pro] to SDI-12 Cable: 32.05005.001500 · 5 pole M12, 15 m
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

As of: 26.08.2022