

THP[pro] TEMPERATURE-HUMIDITY-PRESSURE SENSOR



Industry-leading multisensor technology for the highest WMO standards

The quality of meteorological data is significantly influenced by the accuracy and reliability of the sensors used. The THP[pro] sensor meets the highest standards of the World Meteorological Organization (WMO) and has been developed for various applications where precise meteorological data is required.

- Three parameters in one sensor for maximum versatility
- Precision as per WMO and ICAO standards: Reliable measurements, globally recognized
- Low energy requirement - perfect for low-power applications
- Fail-safe and redundant pressure measuring with three independent ICs
- Easy configuration with USB-C interface right on the sensor
- Increased operational reliability of the sensor due to integrated LED status light

APPLICATIONS

- Global weather monitoring according to WMO standards
- Health and safety regulations
- Ship weather stations
- Helicopter decks

Professional Line	THP[pro]
Id-No.	00.08095.300000
Meas. range air temperature	-40...+80 °C
Meas. range rel. humidity	0...100 % r.h.
Meas. range barometric pressure	300...1200 hPa
Accuracy air temperature	Typically ± 0.1 °C
Accuracy rel. humidity	Typically ± 1 % r. h.
Accuracy barometric pressure	Typically ± 0.15 hPa; relatively ± 0.06 hPa
Resolution air temperature	0.1 °C

Continued on page 2

Professional Line	THP[pro]
Resolution rel. humidity	0.1 % r.h.
Resolution barometric pressure	0.1 hPa
Protocols	Modbus RTU (preconfigured); SDI-12; NMEA
Interface	Serial RS-485; SDI-12
Supply voltage	4.8...33 V DC
Power consumption	Low power mode: 1.1 mA at 12 VDC; 0.9 mA at 24 VDC
Dimensions	H 143 mm x Ø 20 mm
Housing	Aluminum
Protection class	IP 65 (housing)
Weight	Approx. 80 g
Standards	DIN EN 60945 DIN EN 61000-4-2, 3, 4, 6, 11
Accessories (order separately)	32.14567.060010 Cable 15 m, 4 pole 00.08141.600000 Sensor shelter with natural ventilation

As of: 04.03.2025