

THP[pro] Modbus TEMPERATURE-HUMIDITY-PRESSURE SENSOR



Proven measurement technology

The sensor THP[pro] Modbus 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. The Modbus RTU interface simplifies sensor installation and integration into networks.

- combined measuring instrument for high-quality use
- capacitive humidity measuring element
- low maintenance
- signal output: RS 485 • 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] Modbus Temperature-Humidity-Pressure Sensor
Id-No.	00.08095.100030
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.
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

Continued on page 2

Professional Line	THP[pro] Modbus Temperature-Humidity-Pressure Sensor
Resolution rel. humidity	0.1 % r. h.
Resolution barometric pressure	0.1 hPa
Reaction time	rel. humidity (at v = 1.5 m/s): 30 s
Protocols	Modbus RTU
Interface	Serial RS 485
Supply voltage	4,8...33 VDC
Power consumption	4 mA at 24 VDC • 6 mA at 12 V DC • 11 mA at 4.8 VDC
Dimensions	H 140 mm x Ø 20 mm
Housing	Aluminium especially-coated • M12 plug connector (4-pole)
Protection class	IP 65 (housing)
Weight	approx. 80 g
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: 22.09.2020