COMBINED SENSOR “THP[pro]”

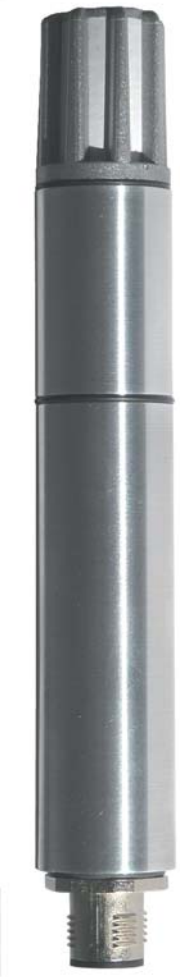
Temperature · Humidity · Pressure

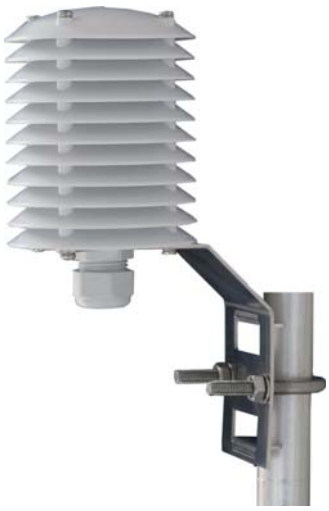
Proven measurement technology

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 humidity: RS 422/ Talker · NMEA
- for use in all climatic zones
- suitable sensor shelter type 8141.6 optional available

hydrology • building technology • power plants • industry





Sensor shelter 8141.6
(option)

Professional Line	THP[pro] Sensor	Id-No. 00.08095.100000
Temperature		
Measuring range:	-40...+70 °C	
Resolution:	0.1 °C	
Improved 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.	
Improved 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: 00.08141.600000 (with natural ventilation) 00.08141.600004 (with artificial ventilation)	

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