



# COMBINED SENSOR "THP[pro] Modbus"

Temperature · Humidity · Pressure

## Proven measurement technology

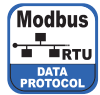
The sensor THP[pro] Modbus is a combined measuring instrument for measuring relative humidity, air temperature and air pressure. The sensor is characterised by high accuracy and energy-saving electronics. The Modbus RTU interface simplifies sensor installation and integration into networks.

- combined measuring instrument for high-quality use
- capacitive humidity measuring element
- low maintenance
- signal output humidity: RS 485 · Modbus
- 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 Modbus	Id-No. 00.08095.100030
<b>Temperature</b>		
Measuring range:	-40...+70 °C	
Resolution:	0.1 °C	
Improved accuracy:	± 0.1 K (0...60 °C) • ± 0.2 K (-40...0 °C) <sup>1)</sup>	
<b>Relative humidity</b>		
Measuring range:	0...100 % r. h.	
Resolution:	0.1 % r. h.	
Improved accuracy:	typ. ± 1.5 % (0...80 %) r. h. • ± 2 % (> 80 %) r. h. <sup>1)</sup> • Reaction time rel. humidity (at v = 1.5 m/s): 30 s <sup>2)</sup>	
<b>Barometric pressure</b>		
Measuring range/Resolution:	500...1100 hPa • 0.1 hPa	
Accuracy:	± 2 hPa (-30...+70 °C) • ± 1 hPa (-10...+60 °C)	
<b>Further technical data</b>		
Supply voltage:	4.8...33 VDC	
Current consumption <sup>3)</sup> :	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 485	
Protocol:	Modbus RTU	
Accessories: (please order separately)	Sensor shelters: 00.08141.600000 (with natural ventilation) 00.08141.600004 (with artificial ventilation)	

<sup>1)</sup> ventilated sensor shelter recommended <sup>2)</sup> with filter membrane <sup>3)</sup> without terminating resistor