

PTH Thies Compact - Meteo

S59000A

1. wrap the nose clamp around the tower (under the shelter box), insert the PTH sensor and continue to tight the driver until the sensor is secure. Do not over-tighten.
2. Trim the cable to the required length.
3. Wire the sensor to the data logger.
4. Program the data logger.

- Measurement of relative humidity, air temperature and barometric air pressure
- High accuracy
- Long-term robustness
- Quick responding behaviour
- Renewed 2000 Hz
- Output voltage 0-5V
- Stainless steel housing
- Accuracy ±0.50 hPa and ±2.0°C
- Stable and reliable
- Including IEC 17025 calibration certificate

Sensor	Plug Pin No.	Ammonit Cable	Meteo-40
High accuracy			Analog Voltage
Long-term robustness			
Quick responding behaviour			
Renewed 2000 Hz			
Output voltage 0-5V			
Stainless steel housing			
Accuracy ±0.50 hPa and ±2.0°C			
Stable and reliable			
Including IEC 17025 calibration certificate			



Description
Hydro-Therm-Baro transmitters COMPACT series are designed for use in meteorological stations for connection to datalogger systems. Thanks to its universal design, the transmitter can also be used as a single sensor for internal compensation of temperature error.

Accuracy
The transmitter also has a high accuracy of ±0.50 hPa and ±2.0°C. The range of the transmitter is available in different ranges: 0-1 V, 0-5 V, 0-10 V.

General
The transmitter is made of stainless steel and is suitable for use in meteorological stations for connection to datalogger systems. Thanks to its universal design, the transmitter can also be used as a single sensor for internal compensation of temperature error.

Baro Sensor
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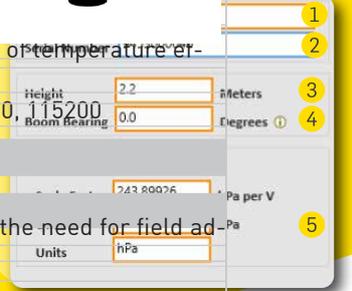
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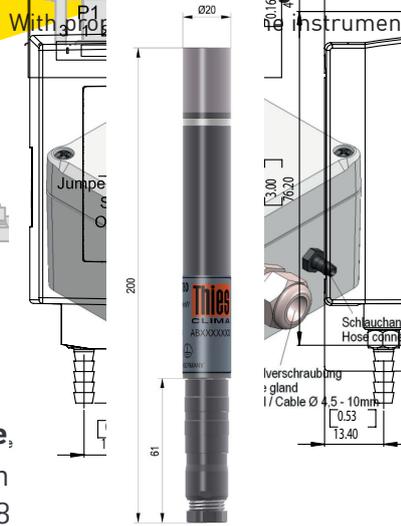
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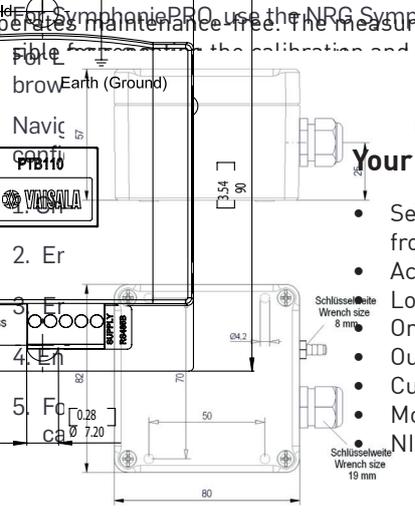
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Dimensional drawing (in mm)



Data Logger Programming



The instrument operates maintenance-free. The measuring results are effective at the moment of determination of the data logger's IP address in a web

tab or web page (depending on the logger type) to

- Your advantages**
- Several pressure ranges, from 500 / 600 / 800 / 1100 hPa (and on the sensor body)
 - Accuracy ±0.3 hPa at +20°C
 - Long-term stability
 - On / off control with external trigger
 - Outputs integrated in 10-pin D-sub connector
 - Current consumption less than 4 mA
 - Mountable on a 195 mm wide DIN rail
 - NIST traceable (certificate included)

For more,
NRG Tech
+1 802.48
support@nrgsystems.com
nrgsystems.com

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Specifications

- Measurement of relative humidity, air temperature and barometric air pressure

Characteristic	Value	Wire Colour	Analog Voltage
Temperature	-40 ... +80 °C	White	0-1 V
Relative Humidity	0 ... 100 % r.H.	Blue	0-1 V
Barometric Air Pressure	500 ... 1100 hPa	Black	0-1 V

- High resistance to vibration
- Membrane pressure sensor
- Absolute pressure sensor
- 2-pole stainless steel housing
- 5000 hours including IEC 17025 calibration certificate

Electrical data
Accuracy: Typ. +1.5% r.H. @ 25°C and < 80% r.H.
Supply voltage: 10 ... 30 VDC
Current consumption: Typ. 3 mA @ 12 V / max. 8.5 mA @ 12 V
Output: 0-1 V (Analog), 0-1 V (Digital)

Output Digital

The PTH Thies Compact uses a 1-wire digital protocol (I2C) for data transfer. The sensor is intended for use at meteorological stations for connection to a data logger system.

Baro Sensor

The barometric pressure sensor uses a piezoresistive variable capacitor principle. It is highly accurate and stable over a wide range of temperatures and pressures.

Output Analog

The sensor provides three analogue outputs (per default 3x 0-1 V) which can be configured as a current or voltage output. The digital (ground) can be used simultaneously with the analogue outputs.

Dimensions

Dimensional drawing (in mm):
Height: 115 mm
Diameter: 28.1 mm
Cable length: 1.5 m

Power supply

Supply voltage: 10 ... 30 VDC
Current consumption: Typ. 3 mA @ 12 V / max. 8.5 mA @ 12 V

General

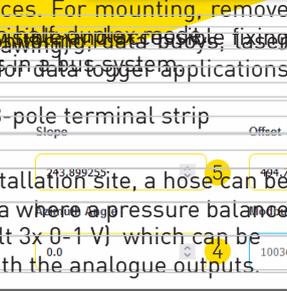
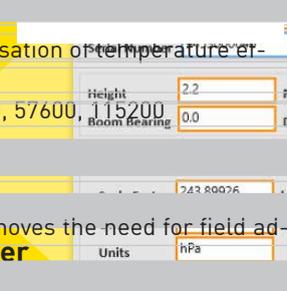
Ambient conditions: -40 ... +85 °C
Housing: Stainless steel
Type of protection: IP 67 (applies to the total sensor)
Dimension: see dimensional drawing
Weight: approx. 0.45 kg
Manufacturer: Thies

Accessories

S50050 Weather and Radiation Shield

For more

NRG Tech
+1 802.48
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- ### Your advantages
- Sensor selection drop-down menu, from 500 / 600 / 800 ... 1100hPa (and on the sensor body)
 - Accuracy ±0.3 hPa at +20°C
 - Long term stability
 - On / off control with external trigger
 - Outputs integrated into PCB
 - Current consumption less than 4 mA
 - Mountable on a 195 mm wide DIN rail
 - NIST traceable (certificate included)

