

# Pronem

mini



- 2 analogue outputs for temperature and humidity
- High output accuracy
- Long-term stability
- Small and useful design
- Low thermal drift
- Current or voltage output signal selection for temperature and humidity analogue output type

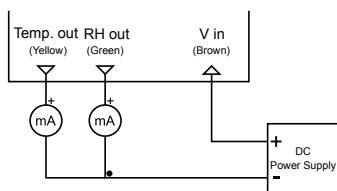
## Applications

- HVAC/ Building Controls
- Poultry House Automation
- Greenhouse Applications
- Food Factories and Warehouses
- Cold Storage
- Pharmaceutical
- Air Conditioning Automation and Air Conditioners
- Textile Applications
- Clean Rooms and Laboratory

## Electrical Connections

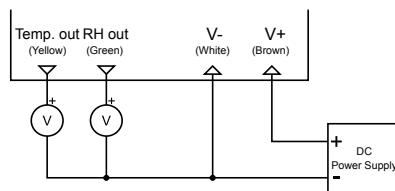
Current  
(4-20mA)

Transmitter



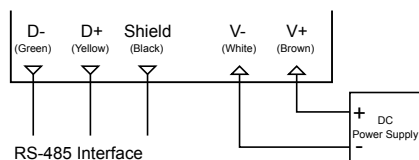
Voltage  
(0-10 V)

Transmitter



RS-485

Transmitter

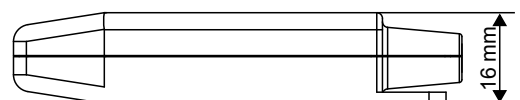
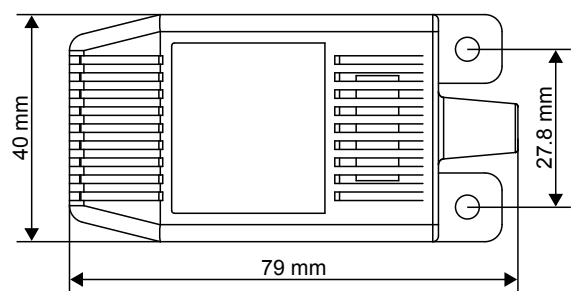


**ATTENTION:** Only 4-20 mA type, temperature output must always be connected to the power supply's negative pin!

## Technical Specifications

Performance	
Measurement Range (RH)	%0...100 RH
Measurement Range (T)°C	-20°C...+80°C
Accuracy (RH)	±%2 RH (Typ) at 23°C %0...100
Accuracy (T)	±0,3°C (Typ) at 23°C
Stability (RH)	<0.5 %RH/year (Typ)
Stability (T)	<0,04°C/year (Typ)
Electrical Specifications	
Supply Voltage	16...32VDC, Max. 1,5W
Analogue Output Signal	0-10 V, 2-10 V, 4-20 mA
Analogue Output Signal Stability	Voltage output ±%0,1
Analogue Output Signal Stability	Current output ±%0,5
Operating Conditions	
Operating Temperature	-40...+85°C
Operating Elevation	Up to 2000 m.
Mechanical Specifications	
Protection Class	IP30
Weight	110g

## Dimensions



Sensor Values and Device Information

**Temperature (MODBUS ADDRESS: 30001)**  
Scale: -20...80 °C

**Humidity (MODBUS ADDRESS: 30002)**  
Scale: %0...%100 RH

**Software Version (MODBUS ADDRESS: 30003)**  
**Example : 2**  
The software version is 2.

Parameters

**Slave Address (Default = 1) (MODBUS ADDRESS: 40001)**  
Any slave address between 1 and 247 can be selected.

**Baud Rate (Default = 9600) (MODBUS ADDRESS: 40002)**  
Any value of 0, 1 and 2 can be selected.  
**0 = 9600   1 = 19200   2 = 38400**

**Parity (Default = 0 (NONE)) (MODBUS ADDRESS: 40003)**  
No Parity, single parity of dual parity can be selected.

**Stop Bit (Default = 0 (1 Stop Bit)) (MODBUS ADDRESS: 40004)**  
Number of stop bits (1 or 2) can be selected.

**Temperature Offset (Default = 0) (MODBUS ADDRESS: 40007)**  
Any value between -10.0 and +10.0 can be selected.

**Relative Humidity Offset (Default = 0) (MODBUS ADDRESS: 40008)**  
Any value between -10.0 and +10.0 can be selected.

**Calibration Date (MODBUS ADDRESS: 40005 - 40006)<sup>(1)</sup>**  
Shows the latest calibration date of the device.

**Device Serial Number (MODBUS ADDRESS: 40009 - 40010-40011-40012)<sup>(1)</sup>**  
Shows the 8-digit device serial number.

**Note 1 :** Read only.

Order Codes

You can create your order code with using the table below.

Sample order code: PMI-P-H0-T0.1.0

Temperature and Relative Humidity Transmitter PRONEM mini, portable, 4-20 mA Relative Humidity Signal Output, 4-20 mA Temperature Signal Output

**Cable technical specifications:** 2.5 meter, 4x0.22mm<sup>2</sup> section, shielded and the diameter of the cable is 4.9mm

