Pronem mini

CE

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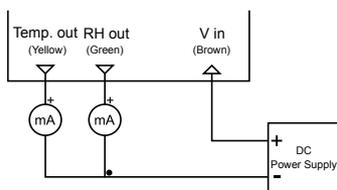- -Current or voltage output signal selection for temperature and humidity analogue output type

Applications

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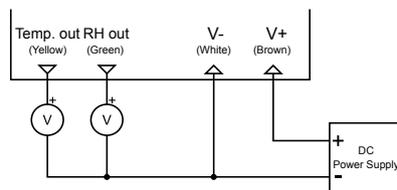- -Clean Rooms and Laboratory

Technical Specifications

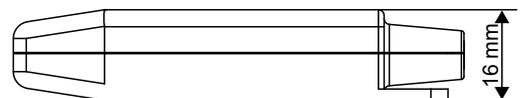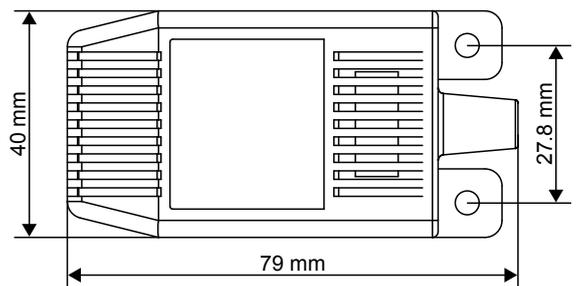| Performance	
Measurement Range (RH)	%0...100 RH
Measurement Range (T)°C	-20°C...+80°C
Accuracy (RH)	±%2 RH (Typ) at 23°C %0...100
Accuracy (T)	±0,3°C (Typ) at 23°C
Stability (RH)	<0.5 %RH/year (Typ)
Stability (T)	<0,04°C/year (Typ)
Electrical Spesifications	
Supply Voltage	16...32VDC, Max. 1,5W
Analogue 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 Spesifications	
Protection Class	IP30
Weight	110g

Dimensions

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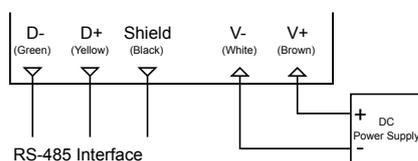
ATTENTION: Only 4-20 mA type, temperature output must always be connected to the power supply's negative pin!

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.

Note 1 : Read only.

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)[1]
Shows the latest calibration date of the device.

Device Serial Number (MODBUS ADDRESS: 40009 - 40010-40011-40012)[1]
Shows the 8-digit device serial number.

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, 4x0.22mm² section, shielded and the diameter of the cable is 4.9mm

P | MI | - | P | - | ☐ | / | ☐ | . | 1 | . | ☐

Main Model	
Temperature and RH Transmitter	**P**

Sub-Model	
PRONEM mini	**MI**

Mounting Type	
Portable	**P**

Relative Humidity / Temperature Signal Output	
RS-485	**0 / 0**
4-20 mA	**H0 / T0**
0-10 V	**H1 / T1**
2-10 V	**H2 / T2**

Communication Interface	
None	**0**
RS-485 (Non-isolated)	**2**

Supply Power	
16...32 VDC	**1**

For more detailed documentation, please visit our website at emkoelektronik.com.tr