



Combined T and rH room transmitter

The RSTHM-2 series are combined room transmitters which measure temperature, relative humidity and ambient light. They are Power over Modbus supplied and all the parameters are accessible via Modbus RTU.

Key features

- Selectable temperature and relative humidity ranges
- 24 VDC Power over Modbus supply
- Bootloader for updating the firmware via Modbus RTU communication
- Ambient light sensor with adjustable 'active' and 'standby' level
- Modbus RTU (RS485)
- 3 LEDs with adjustable light intensity for status indication
- Long-term stability and accuracy

| | | Technical specifications | |
|--|---------------------------|------------------------------|--|
| Supply voltage | 24 VDC, Power over Modbus | | |
| Maximum power consumption | 0,312 W | | |
| Nominal or average power consumption in normal operation | 0,234 W | | |
| Imax | | 13 mA | |
| Selectable temperature range | 0—50 °C via Modbus RTU | | |
| Selectable relative humidity range | 0—100 % rH via Modbus RTU | | |
| Accuracy | ±0,4 °C (0-50 °C) | | |
| | ±3 % rH (0-100 % rH) | | |
| Protection standard | | IP30 (according to EN 60529) | |
| Ambient conditions | Temperature | 0-50 °C | |
| | Rel. humidity | 0—100 % rH (non-condensing) | |

| Wiring diagram | | | |
|---|--------|-------|--|
| RJ45 socket (Power over Modbus) | | | |
| Supply voltage | 24 VDC | Pin 1 | |
| Supply voi | | Pin 2 | |
| Modbus RTU communication, signal A | А | Pin 3 | |
| Moubus KTO communication, signal A | | Pin 4 | |
| Modbus RTU communication, signal /B | /B | Pin 5 | |
| Ploubus KTO confindincation, signal / b | | Pin 6 | |
| Ground, supply voltage | GND | Pin 7 | |
| Ground, supply voltage | | Pin 8 | |
| GND * mm * 2 /B * mm * 5 A * mm * 3 24 VDC * mm * 2 1 | | | |



| | | Article codes |
|---------|---------------------------|-----------------|
| | Supply voltage | Connection type |
| RSTHM-2 | Power over Modbus, 24 VDC | RJ45 |

Area of use

- Monitoring indoor temperature and relative humidity in HVAC applications
- Suitable for residential and commercial buildings
- · For indoor use only

Standards

- Low Voltage Directive 2014/35/EC
 - EN 60529:1991 Degrees of protection provided by enclosures (IP Code)
 - Amendment AC:1993 to EN 60529
 EN 60730-1:2011 Automatic electrical controls for household and similar use
 - Part 1: General requirements
- EMC directive 2014/30/EC:
- EN 60730-1:2011 Automatic electrical controls for household and similar use -Part 1: General requirements EN 61000-6-1:2007 Electromagnetic compatibility (EMC) - Part 6-1: Generic
- standards - Immunity for residential, commercial and light-industrial
- EN 61000-6-3:2007 Electromagnetic compatibility (EMC) Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments. Amendments A1:2011 and AC:2012 to EN 61000-6-3
- EN 61326-1:2013 Electrical equipment for measurement, control and laboratory use EMC requirements Part 1: General requirements EN 61326-2-3:2013 Electrical equipment for measurement, control and laboratory use EMC requirements Part 2-3: Particular requirements. Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning.
- WEEE 2012/19/EC
- RoHs Directive 2011/65/EC

Modbus registers



The Sensistant Modbus configurator allows you to easily monitor and/or configure Modbus parameters.

The parameters of the unit can be monitored / configured through the 3SModbus software platform. You can download it from the following link:

https://www.sentera.eu/en/3SMCenter

For more information about the Modbus registers, please refer to the product Modbus Register Map.



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