



## RSTHM-2

## Temperature and humidity 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

	Techr	nical 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)
Accuracy	±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 and connections
		RJ45 socket (Power over Modbus)
Pin 1	24 VDC	Cumply yellogo
Pin 2		Supply voltage
Pin 3	А	Modbus RTU communication, signal A
Pin 4		Modbus RTO communication, signal A
Pin 5	/B	Modbus RTU communication, signal /
Pin 6		
Pin 7	CND	Cround gunnly voltage
Pin 8	GND	Ground, supply voltage
GND Smm /B Smm A Smm 24 VDC Smm	7	745

#### **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.



		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**

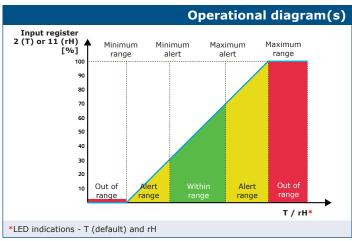
- Low Voltage Directive 2014/35/EC
  - -EN 60529:1991 Degrees of protection provided by enclosures (IP Code) Amendment AC:1993 to EN 60529
  - EN 60730-1:2011 Automatic electrical controls for household and similar use -Part 1: General requirements
- EN 60730-1:2011 Automatic electrical controls for household and similar use Part 1: General requirements
- EN 61000-6-1:2007 Electromagnetic compatibility (EMC) Part 6-1: Generic Immunity for residential, commercial and light-industrial standards
- EN 6100-6-3:2007 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

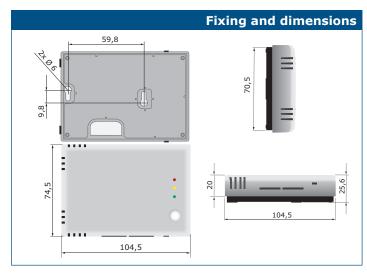


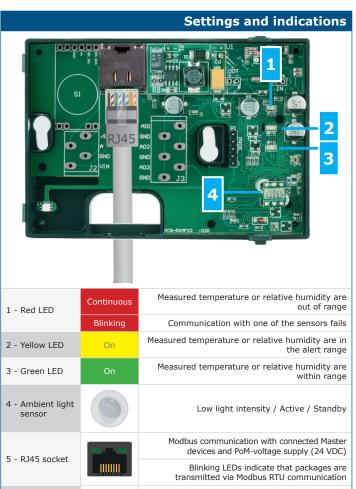
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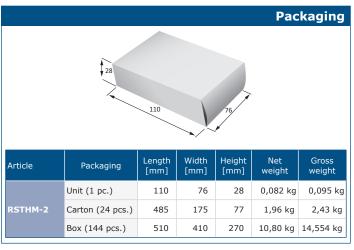
Bootloader mode

When bootloader mode is activated, the green

After starting the bootloader application, the red

and yellow LEDs flash alternately

LED starts blinking



Global trade item numbers (GTIN)		
Packaging	RSTHM-2	
Unit	05401003011430	
Carton	05401003301876	
Вох	05401003502693	