

ODTHM

Temperature and humidity outdoor transmitter



Key features

- Selectable temperature and relative humidity ranges
- Bootloader for updating the firmware via Modbus RTU communication
- Day / Night detection via ambient light sensor
- Adjustable 'active' and 'standby' level depending on the ambient light intensity
- Modbus RTU (RS485)
- Long-term stability and accuracy

Technical specifications

Supply voltage	24 VDC, Power over Modbus
Maximum power consumption	0,6 W
Nominal or average power consumption in normal operation	0,45 W
I _{max}	25 mA
Selectable temperature range	-30–70 °C via Modbus RTU
Selectable relative humidity range	0–100 % rH via Modbus RTU
Accuracy	±0,4 °C (-30–70 °C) ±3 % rH (0–100 % rH)
Enclosure	Protection class IP65 (according to EN 60529) Material POLYFLAM® RABS 90000 UV5, colour: grey RAL 7035
Ambient conditions	Temperature -30–70 °C Rel. humidity 0–100 % rH (non-condensing)

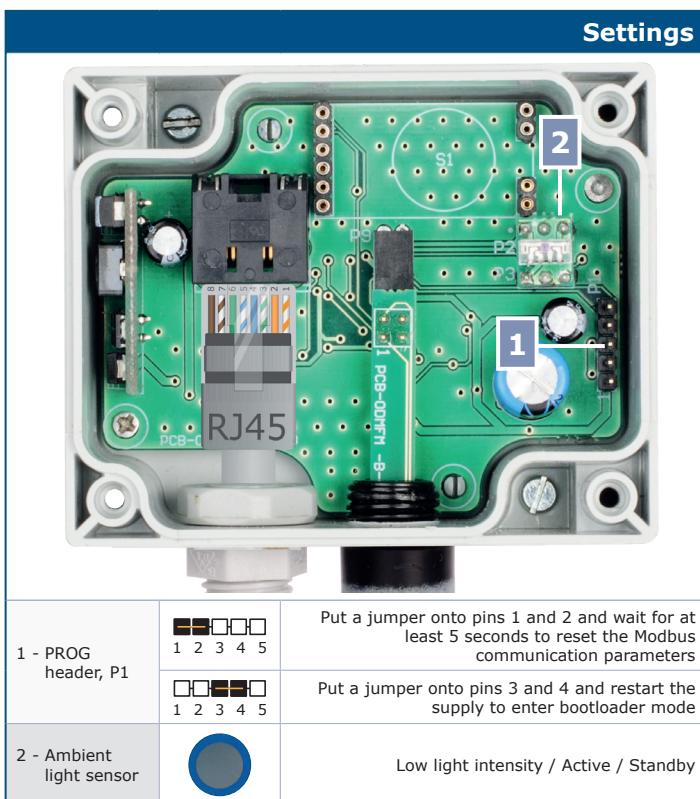


Area of use

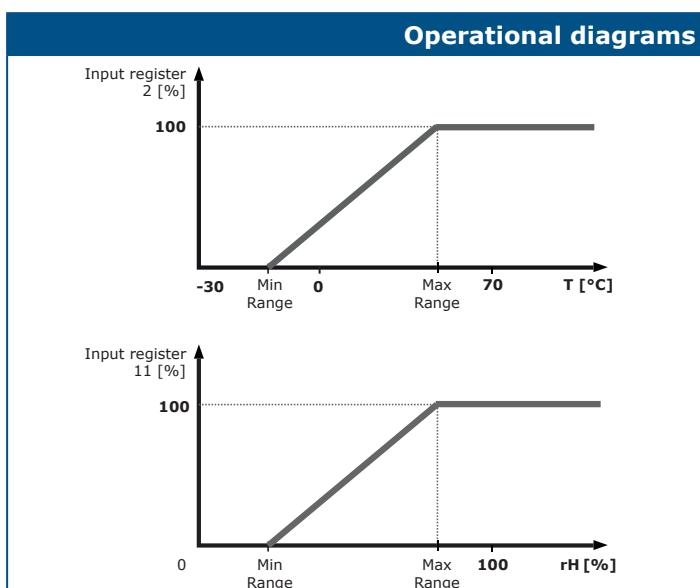
- Monitoring temperature and relative humidity in HVAC applications
- Suitable for both indoor and outdoor use

Wiring and connections

24 VDC	Supply voltage 24 VDC
GND	Ground
A	Modbus RTU communication, signal A
/B	Modbus RTU communication, signal /B



(indicates the position of the jumper)

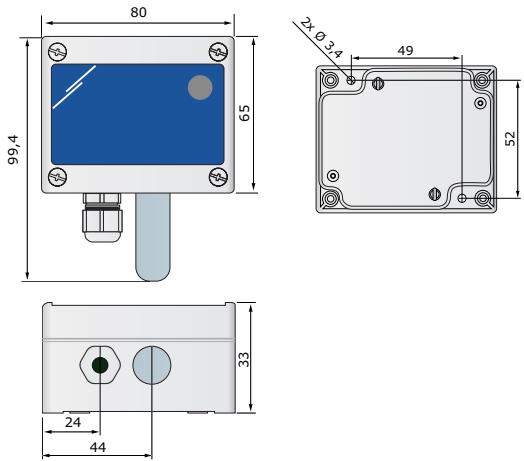


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Dimensions

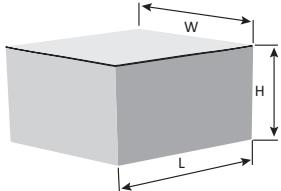


Standards

- Low Voltage Directive 2014/35/EC
 - EN 60529:1991 Degrees of protection provided by enclosures: (IP Code) Amendment AC:1993 to EN 60529
- EMC directive 2014/30/EC:
 - EN 61000-6-1:2007 Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments
 - 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 Directive 2012/19/EC
- RoHS Directive 2011/65/EC



Packaging



Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight	Gross weight
Unit (1 pc.)	110	90	50	0,12 kg	0,15 kg
Box (80 pcs.)	590	380	280	9,60 kg	12,86 kg

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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Application example

