

Temperature & RH Transmitter

Model No: SENSE-TH200

Data Sheet



Item	Information
Measured Parameters	Temperature + Relative Humidity (combined T+RH sensor module)
Sensor Code	TRH / as per selected temperature-RH sensor variant
Product Platform	SENSE-TH200
Enclosure Type	WP - Weatherproof industrial enclosure
Document Type	Data Sheet
Document Revision	Rev. 1.0
Important: Read this complete manual before installation, commissioning, operation, calibration or servicing of the temperature and RH transmitter.	

OVERVIEW

The SENSE-TH200 combines temperature and relative humidity sensing, communication and cloud-ready architecture into a single weatherproof platform suitable for industrial temperature/RH monitoring and alarm indication applications.

Features

- Weatherproof industrial enclosure for non-flameproof industrial areas.
- Integrated condensation prevention support.
- Reverse polarity and incorrect wiring protection.
- Multiple industrial-grade filter variants available for any weather conditions.
- Specially Designed for Rough Environments & high humidity applications.
- 2.4" TFT LCD color display with touch keypad interface.
- RS485 Modbus RTU communication for PLC, DCS, BMS, SCADA and data logger integration.
- Modbus TCP/IP communication support through Ethernet interface.
- PoE (Power on Ethernet) support.
- Ethernet and Wi-Fi internet connectivity depending on model variant.
- Cloud protocol support: MQTT(S), HTTP(S).
- Default compatibility with Linked IoT SCADA platform.
- 4-20 mA analog output channels and relay output for external alarm or interlock.
- Local buzzer and top alarm indicator/lens for alarm annunciation.
- Continuous 24x7 monitoring operation.
- Compact enclosure suitable for wall/surface mounting.

Applications

- Cold storage plants, cold rooms and refrigeration utility areas
- Compressor rooms, HVAC rooms and utility areas
- Warehouses, storage areas and process rooms where temperature/RH monitoring is required
- Boiler rooms, AHU rooms and industrial plant rooms
- Ventilation, HVAC and environmental alarm interlock systems
- Food, dairy and beverage processing plants
- Pharmaceutical warehouses and production utilities
- Water and wastewater treatment plants
- Industrial environmental monitoring panels
- SCADA, BMS, PLC and IoT-based environmental monitoring systems
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TECHNICAL SPECIFICATIONS

Parameter	Specification
Sensor Technology	Capacitive Sensing
Measured Parameters	Temperature + Relative Humidity
Temperature Range	0 – 100 °C
Humidity Range	0 – 100 % RH
Temperature Accuracy	±0.3°C Typical
Humidity Accuracy	±2% RH Typical
Output Type	2 × 4–20mA
Display	TFT LCD color display
User Interface	Keypad for device configuration
Typical Power Supply	24 VDC
Power Supply Range	12 – 30 VDC
PoE	PoE support through Ethernet interface, depending on ordered variant
Additional Outputs	Relay Output
Communication	RS485 Modbus RTU, Ethernet Modbus TCP/IP
Cloud Protocols	MQTT(S), HTTP(S)
Internet Connectivity	Ethernet / Wi-Fi depending on model variant
Operating Temperature	-15°C to +50°C or as per final sensor datasheet
Storage Temperature	-10°C to +60°C or as per final sensor datasheet
Mounting	Wall / surface mount
Operation	Continuous 24x7 monitoring

MECHANICAL DIMENSIONS

The following dimensional drawing provides the mechanical dimensions required for mounting and installation planning.

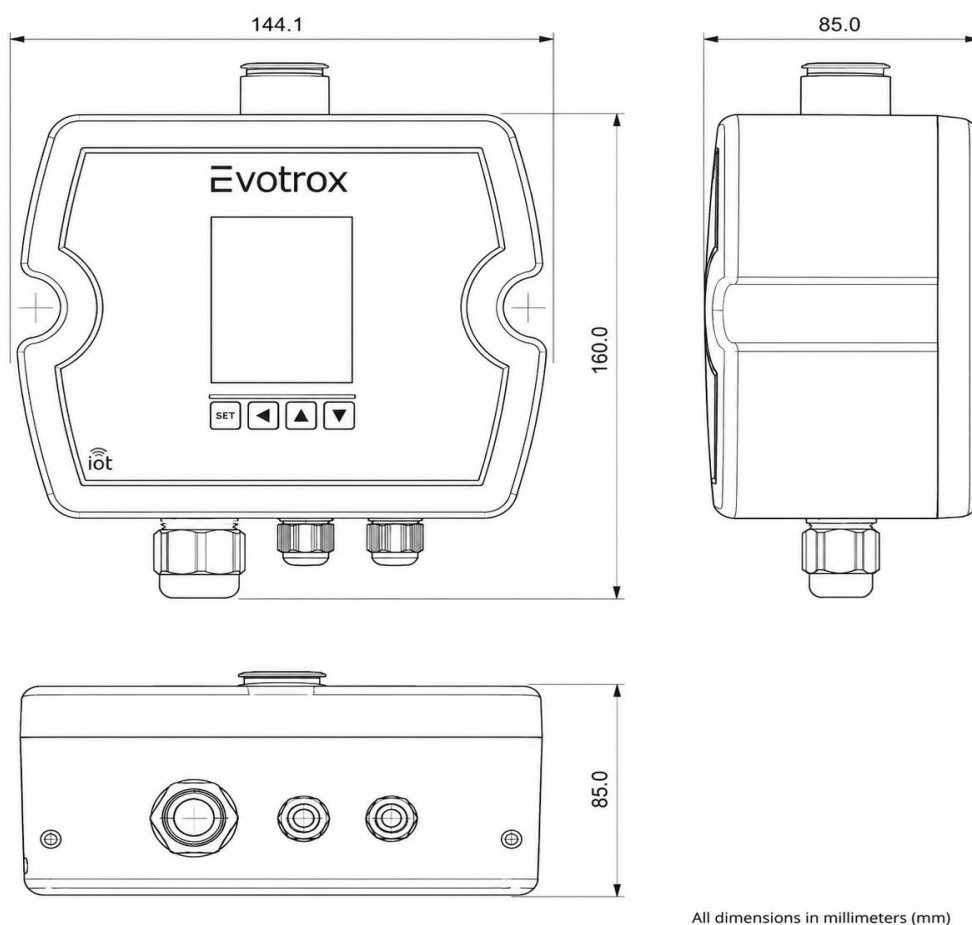


Figure: Dimensional Drawing with Front, Side and Bottom Views

ORDERING INFORMATION

Ordering format: **SENSE - TH200 - F1 - I1**

Code Segment	Meaning
SENSE	Product Family
TH200	Product Model
F1	Filter Category
I1	Expansion Card

Note: If no filter option is specified during ordering, standard F1 filter variant will be supplied by default.

CONTACT INFORMATION

Company	Details
Brand	EVOTROX
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