

Temperature & RH Transmitter

Model No: SENSE-TH100

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-TH100
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-TH100 is designed with a weatherproof industrial enclosure and integrated sensing architecture suitable for long-term operation in demanding environmental conditions

Features

- Dual parameter Temperature & Humidity monitoring
- 2 × 4-20 mA analog outputs
- 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
- Wall Mount & Duct both Mount Variants

Applications

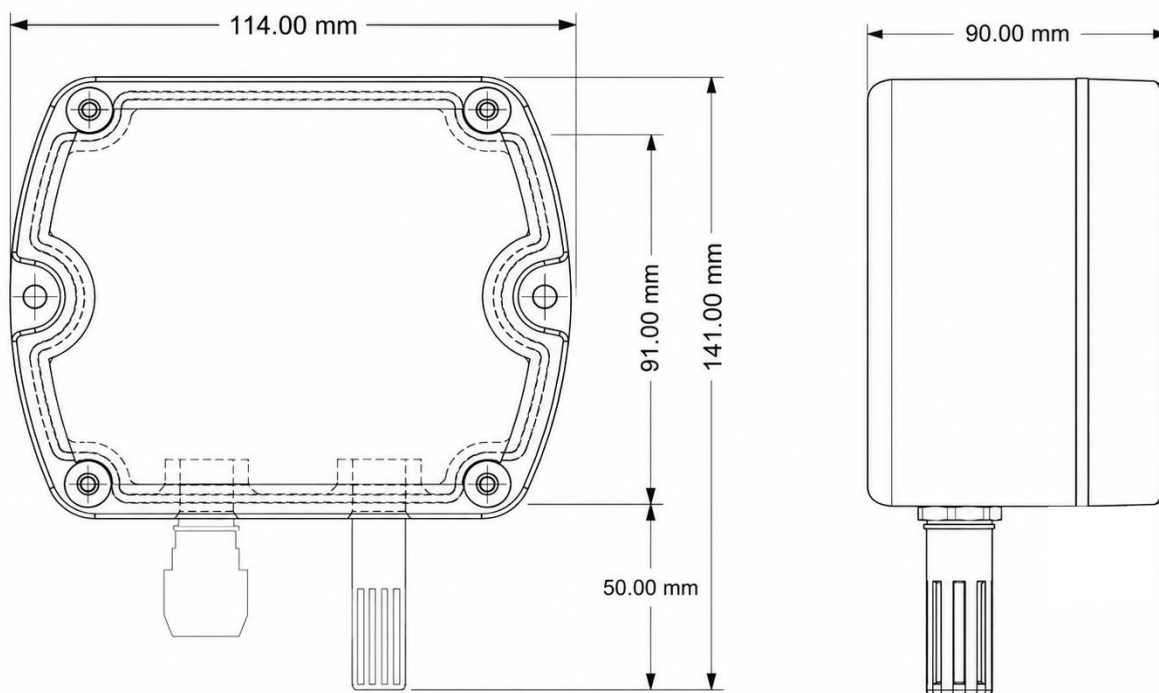
- Cold storage plants, cold rooms and refrigeration utility areas
- Compressor rooms, HVAC rooms and utility areas
- Warehouses, storage areas and process rooms where temperature/RH monitoring is required
- Boiler rooms, AHU rooms and industrial plant rooms
- Ventilation, HVAC and environmental alarm 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

TECHNICAL SPECIFICATIONS

Parameter	Specification
Power Supply	24 VDC
Power Supply Range	12 VDC to 30 VDC
Power Consumption	<1W
Temperature Range	0°C to 100°C
Humidity Range	0% to 100% RH
Temperature Accuracy	±0.3°C Typical
Humidity Accuracy	±2% RH Typical
Output Type	2 × 4-20 mA Signals
Protection Class	IP65

MECHANICAL DIMENSIONS

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



ORDERING INFORMATION

The following ordering structure should be used while selecting the appropriate product and filter configuration.

Model	Filter	Description
SENSE-TH100-F1	SS Mesh	Standard industrial application
SENSE-TH100-F2	SS Sintered	Dusty industrial application
SENSE-TH100-F3	PTFE Membrane	Outdoor / condensation application
SENSE-TH100-F4	PTFE + AC Membrane	Chemical vapor application
Note: If no filter option is specified during ordering, standard F1 filter variant will be supplied by default.		

CONTACT INFORMATION

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