Temp. & Humidity Transmitter Octa Safe Series

TRH-554-WP

TUV INDIA — ISO 9001 Certified
TUV NORD — ISO 9001

AMBETRONICS ™
AN ISO 9001:2015 CERTIFIED COMPANY

ORDER CODE : TRH-554-WP-0-0-Octa Safe

Features

- Highly accurate Digital technology sensor gives fast and reliable output.

- Temperature range is -40°C to +100°C with accuracy of ± 0.5 ºC.

- Relative Humidity range is 0% RH to 100%RH with accuracy of ± 2%RH.

- Long term stable output for both Temperature and Relative Humidity.

- Digital Display of Temperature & Relative Humidity on Seven Segment Display

- Standard 4-20mA signal outputs with configurable range.

- Easy handling & programming with 3 keys

- Password protected programming with password changing facility.

- Software calibration for both Temperature & Relative Humidity.

- Flash Memory for Data security in the event of power failure.

- Optional 2 Nos. Alarm relay contacts with two configurable Alarm levels & one relay for fail safe relay.

- Optional Isolated RS-485 communication port with MODBUS RTU Protocol.

- Compact size, can be easily installed.

Applications

- Clean Rooms
- Server Room
- Pharmaceutical
- Hospitals / Labs
- Walk-in-cooler
- Greenhouse Breeding
- Warehouse / Cold Room
- Indoor Air Quality (IAQ)
- Air Condition Room
- Energy Management System (EMS)

TECHNICAL SPECIFICATIONS

General

Sensor Type	:	Capacitive Polymer sensor
Range	:	For Temperature : -40°C to 100°C
		For Relative Humidity : 0 to 100% RH
Display	:	2-Line, 4-Digit 13mm (H) Seven Segment Display.
		8 LEDs to indicate status of instrument.
Control Action	:	i) Two independent Alarm set points with Latch & Non-latch facility.
	:	ii) User selectable Hysteresis
Setting	:	By 3 Keys on front panel for WP model

Performance

Measurement	:	± 0.5°C for Temperature
Accuracy	:	± 2% RH for Relative Humidity
Response Time	:	Approx 5 Seconds

Electrical

Supply Voltage	:	18 to 36 VDC; Typically 24VDC.
Power Consumption	:	Less than 3.5 Watts
Cable	:	3 Wires (1.5 mm^2) Flexible or Armoured Shielded Cable.

Error Monitoring

- During Sensor break / open, the Display shows 'SEnS OPEn' & output current will be as per Upscale/Downscale.
- During Over Range the Display Shows 'OVER' & Under range Display Shows 'UNDER' output current will be as per Upscale / Downscale
- Upscale current = 21mA
- Down scale current = 3.7mA

Output Signal

Standard	:	Two 4-20mA Current Outputs with configurable range selection, one each for Temperature & Relative Humidity Respectively
Optional	:	Three SPDT Relays (one for failsafe and two for Alarm Condition) of rating "120VAC/2A, 24VDC/2A"
Optional	:	Isolated RS-485 Communication port with MODBUS RTU protocol.

Environmental

Operating Temperature	:	-15 to +55°C
Humidity	:	Less than 95% Non-Condensing.

Accessories

- C€ certified 24 VDC Power supply.
- Canopy Mounting stand.
- SCADA Software.
- RS-485 to USB convertor
- RS-232 to RS-485 convertor
- Hooter cum Flasher

Weatherproof Housing

Protection Class	:	IP-65
Enclosure Material	:	Polycarbonate, Grey Colour (RAL7032)
Cable Entry	:	Thermoplastic cable gland (IP 68)
Dimension	:	247 mm (H) x 171 mm (W) with hooter cum flasher x 70mm (D) (with 1 gland)
		247 mm (H) x 156 mm (W) with both side gland x 70mm (D) (with 2 glands)
Mounting	:	Wall Mounting / Stand Mounting / Pipe Mounting
Weight	:	Approx 600 Grams.

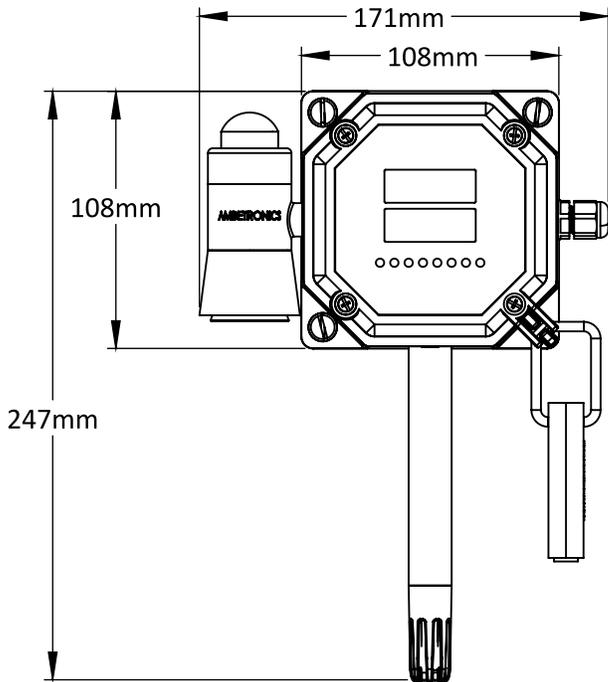# ORDERING INFORMATION

1) TRH-554-WP-0-0-Octa Safe

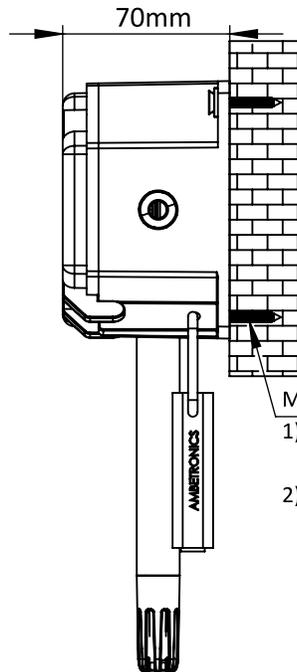| MODEL NO.	I- Integrated E- Extended	Output 1- 4-20mA 2- RS 485 3- Relay output	ENCLOSURE

* Before placing order please Refer the above ordering information or Contact us for assistance.

FRONT VIEW

171mm
108mm
108mm
247mm

SIDE VIEW

70mm

MOUNTING DETAILS :
1) METAL WASHER
   ID-6mm, OD-12mm, 3 NOS.
2) 5X30 CHIPBOARD SCREW 3 NOS.

BACK VIEW

3 NOS. ∅7mm
DRILL HOLES
FOR WALL
MOUNTING

C-C
90mm

C-C
90mm
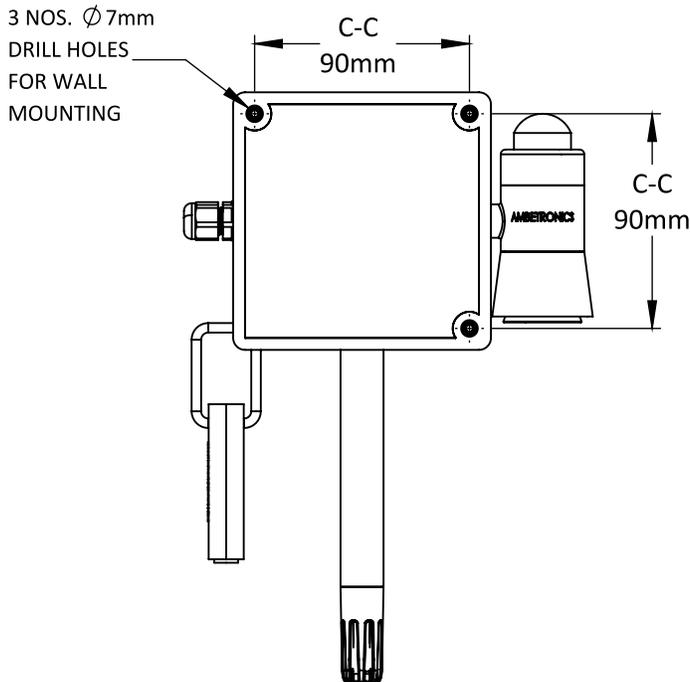
ISOMETRIC VIEW
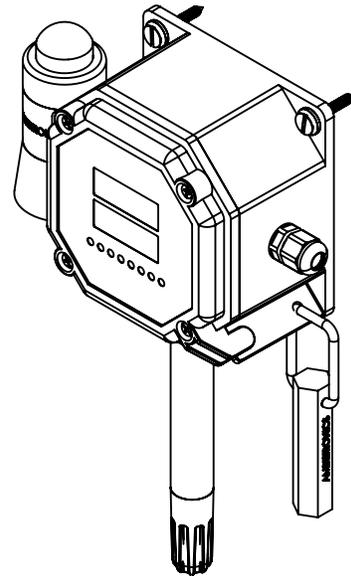
NOTE : 1. ALL DIMENSIONS ARE IN "mm", UNLESS OTHERWISE SPECIFIED.
2. TOLERANCE ON DIMENSION ±5 mm, UNLESS OTHERWISE SPECIFIED.

Dealers:

Specifications subject to change without any prior notice

Manufactured by :

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