

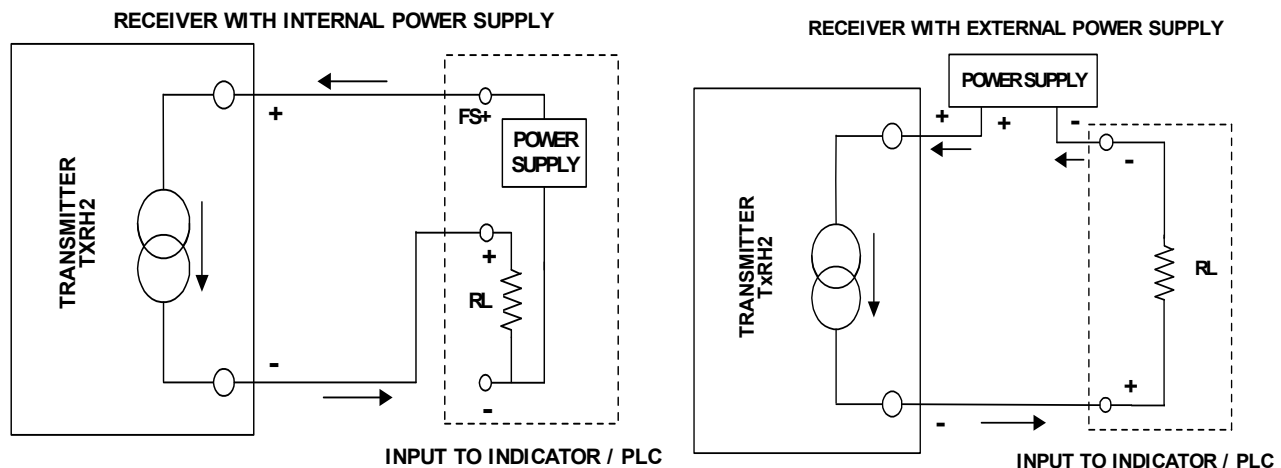
## FEATURES

- ❑ Compact Size
- ❑ High Accuracy
- ❑ Fast response time
- ❑ Chemically resistive sensor
- ❑ Stable, Low Drift performance
- ❑ 2-wire transmitter connection
- ❑ Wall/Duct mounting
- ❑ Flame retardant ABS enclosure
- ❑ IP65 Protection



TxRH2 is a two-wire Relative Humidity Transmitter. The Relative Humidity sensor used here, uses an industrially proven thermoset polymer, three layer capacitance construction, platinum electrodes and on-chip silicon integrated voltage output signal conditioning. The sensor responds to the full range from 0-100% relative humidity. Its response is essentially linear, with small hysteresis and negligible temperature dependence. This change is then converted to its mV equivalent. TxRH2 amplifies the analog output of the sensor by an operational amplifier and converts it to the corresponding output current of 4 – 20 mA. It is designed for a two-wire connection in which the supply current value conveys the information about relative humidity.

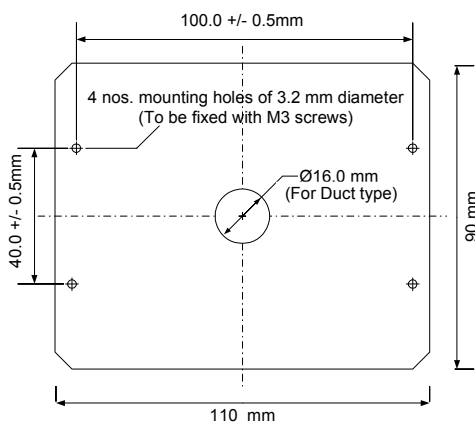
## MODULE WIRING DIAGRAM:



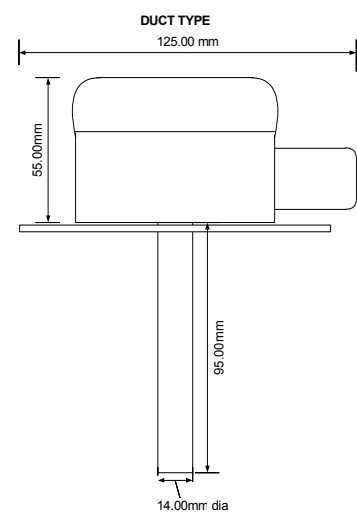
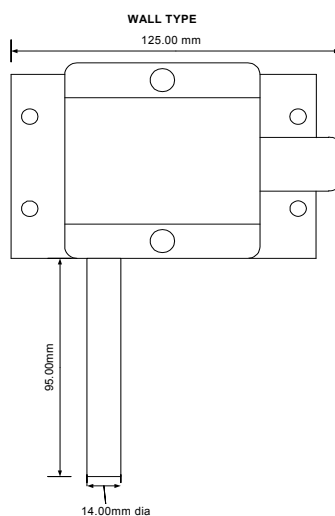
**SPECIFICATIONS:**

Sensor	Capacitive type
Working range	0 – 100 % RH, non-condensing
Supply Voltage	12 - 35 V DC
Electrical Connection	2 wire type (screw connection)
Output signal appropriate 0-100% RH	4 – 20 mA
Adjustments	Zero and Span (Internal)
Output Load	600 ohms maximum at 24 V DC
Accuracy	+/- 2% RH
Linearisation	0.5% RH typical
Hysterisis	+/- 1.2% of RH typical
Response Time	15 seconds in slowly moving air at 25 Deg. C
Repeatability	+/- 0.5% RH
Long term stability	+/- 1% RH typical at 50% RH in 5 years
Operating temperature	5 to 55 Deg. C
Storage temperature	-10 to 70 Deg. C
Mounting	Wall/Duct type
IP Rating	IP 65 protection (Enclosure)
Housing	Flame Retardant Thermoplastic type
Probe Length	100 mm
EXTERNAL DIMENSION For Wall type	125 (W) × 190 (H) × 55 (D) mm
For Duct type	125 (W) × 90 (H) × 155 (D) mm (depth inside duct 95 mm)
Gross Weight	325 gms

**MOUNTING DETAILS:**



**ENCLOSURE DETAILS:**



**ORDERING CODE:**

**TXRH2** -

Mounting Type (H)	
HD	Duct Mounting
HW	Wall Mounting

**SAMPLE ORDER CODE**  
TXRH2 - HW  
Wall Mounting