MULTISPAN

HUMIDITY + TEMPERATURE CONTROLLER

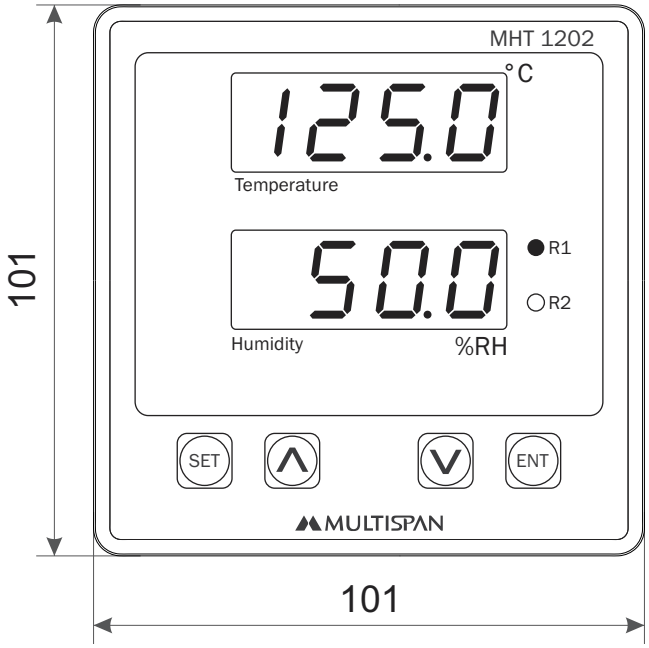
MHT 1202

APPLICATIONS

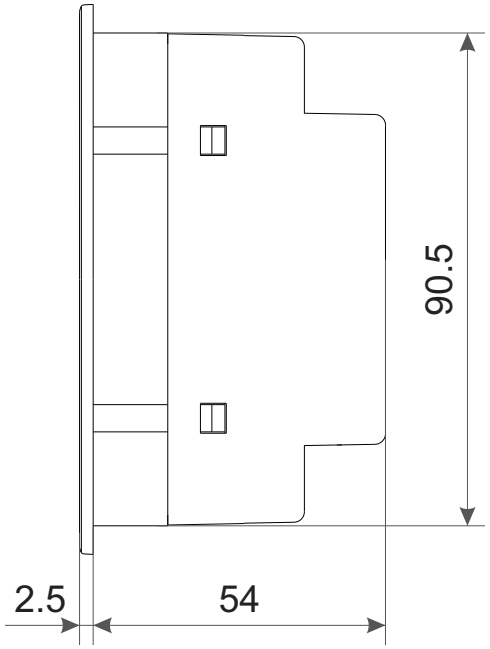
- Process industries
- Lab Testing equipment
- Testing Chambers
- HVAC & Refrigeration industries

Mechanical Dimensions

Body Dimensions



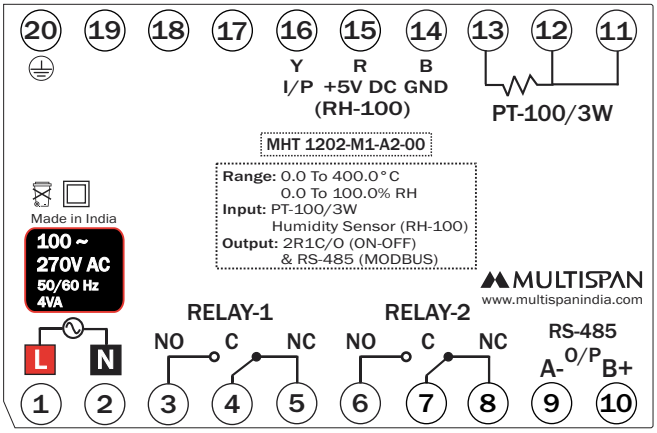
FRONT VIEW



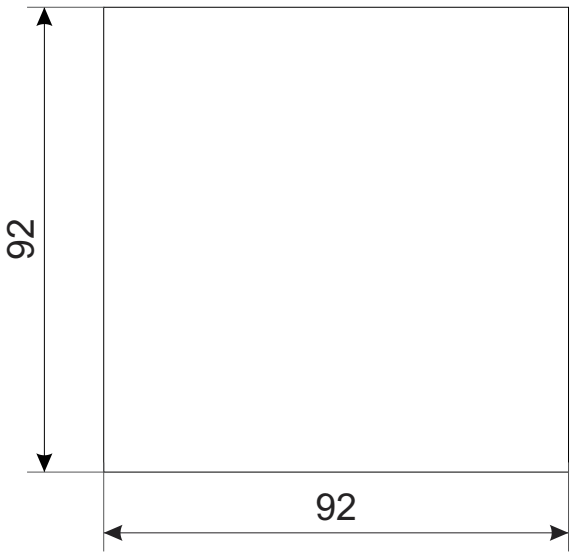
RIGHT SIDE VIEW

All dimensions are in mm

Connection Diagram



Panel Cutout



TECHNICAL DATA

Input	S1 : RTD, PT 100/3W Sensor S2 : Humidity Sensor (RH-100)
Range	0.0 to 400.0 °C 0.0 to 100.0 % RH
Output	2 Relay
Alarm	High / Low Alarm (ON-OFF Action)
Communication (Optional)	RS-485 Modbus
Power Supply	100-270V AC ,50/60Hz, Approx 4VA

Input

Input	S1 : RTD, PT 100/3W Sensor S2 : Humidity Sensor (RH-100)
Range	0.0 to 400.0 °C 0.0 to 100.0% RH
Resolution	0.1 %
Accuracy	± 1% of FSD
ADC Resolution	10 Bit
Sample Time	600 msec
CJC Error	± 2 °C
Sensor Open	PT 100 & RH 100
Sensor Burnout Current	1.10uA
CMRR	>120 dB (Typical)
Max Voltage	20V DC
Response Time	675mS

Auxiliary Power Supply

Power Supply	100 to 270V AC, 50/60Hz
Burden	4VA

Output

Relays	2 Nos
Relay Type	1C/O (NO-C-NC)
Rating	5A, 230V AC / 30V DC

Display LED & Keys

Display	**Upper**	4 Digit 7 seg 0.36”Red LED
	Lower	4 Digit 7 seg 0.36” White LED
Key		SET, INC, DEC, ENT
LED Indication		R1, R2

Communication

Type	RS 485
Protocol	MODBUS RTU
Baud Rate	2400 , 4800 , 9600 , 19200 , 38400
Isolation	2500 V_{RMS} Isolation as per UL 1577

Note :
Accurate sensing of humidity is subject to proper mounting of humidity sensor as per application area. Please consult our support engineers if needed.

Environmental Characteristics	
Working Temperature	0 to 55 °C
Storage Temperature	0 to 55 °C
Relative Humidity	95% RH Non-condensing
Warm up time	5 minutes

Mechanical Characteristics		
Mounting Type		Panel Mount
Dimension (HxWxD) mm		101 x 101 x 54
Panel Cutout (HxW) mm		92 x 92
Material	Front	Polycarbonate (PC)
	Enclosure	ABS
Terminal Screw Size		M3.5
Screw Torque (N.m)		0.5
Wire Guage (AWG)		26-14
Weight (Approx) gms		Unpacked : 200 Packed : 230
Accessories		1 Pair of Mounting Clamps