

Product Features



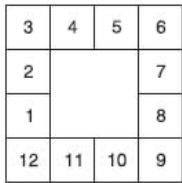
- 3 1/2 digit, 7segment LED temperature display
- Wide voltage range (85-270V AC / DC)
- Universal input (J / K / PT-100)
- LED indication for sensor, function & relay status.
- Sensor and function lock.
- Dual function (On / Off or Self tuned).
- Single set point with relay output.
- Over voltage protection.
- H3TX-Ua / TX7-Ua / EX9-Ua/H3TX-Ub : Single display for both process and set value.
- Temperature offset calibration user settable
- Single set point with relay output
- H3TX-Ub: 3 Digit, 7segment display for displaying temperature with height 0.4 “
- H3TX-2U / TX7-2U / EX9-2U : Dual display for process and set value.
- Single set point with relay output
- Dual function (ON-OFF or Self-tune)

Specifications

Model	H3TX-Ua	H3TX-2U	TX7-Ua	TX7-2U	EX9-Ua	EX9-2U
Function	On-Off / Self Tune single set point					
Types of sensor input	J / K / PT100					
Rated supply voltage	85Vto 270V AC, 85V DC to 270V DC					
Operating voltage range	85Vto 270V AC, 85V DC to 270V DC					
Rated frequency	50 / 60Hz \pm 5% for AC supply only					
Power Consumption	AC approx.6VA / 1.2W,					
Control relay output	1 c/o rated for 5A@250V AC / 28V DC, resistive load					
Temperature range	J type: 0°C to 600°C, K type: 0°C to 1200°C, PT100 (for On-Off): -100°C to 300°C , PT100 (ST): 0°C to 300°C					
Hysteresis	2°C to 20°C (for On - Off function only)					
Display accuracy	\pm 0.5% of full scale \pm 10C					
Recovery time	2sec minimum					
Variation due to temp. change	0.25°C per degree change in ambient temperature (Ref. 25°C)				0.35°C per degree change in ambient temperature (Ref. 25°C)	
Ambient temperature	Operation: +5°C to +45°C, Storage: -10°C to 85°C					
Humidity	Max. 85% RH @ 40°C				Max. 95% RH @ 40°C	
Service life (under no load)	10 ⁶ operations minimum					
Electrical life (under full load)	10 ⁵ operations minimum					
Insulation resistance	>100Mohms @ 500V DC					
Di-electrical strength	1. 2.5KV AC, 50Hz for 1minute. (Between current carrying and non-current carrying parts). 2. 1.5KV AC, 50Hz for 1minute. (Between contacts and control circuit). 3. 750V AC, 50Hz for 1minute. (Between non-continuous contacts of the relay).					
Electrical connection	Screw type terminals with self lifting clamps					
Dimension (over-all)	48 x 48 x 115mm (W x H x D)		72 x 72 x 128mm (W x H x D)		96 x 96 x 117mm (W x H x D)	
Dimension (cut-out)	46 x 46mm (W x H)		69 x 69mm (W x H)		92 x 92mm (W x H)	

Connections

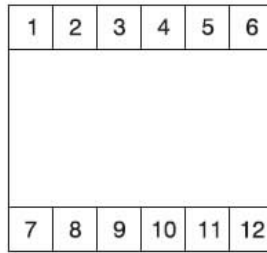
H3TX-Ua / H3TX-2U



3 : TC +ve / RTD 1
 4 : TC -ve / RTD 2
 5 : RTD 3
 6 : Program enable
 1 : Source
 2 : NC
 10 : NC
 11 : C
 12 : NO

Short for 2 wire RTD

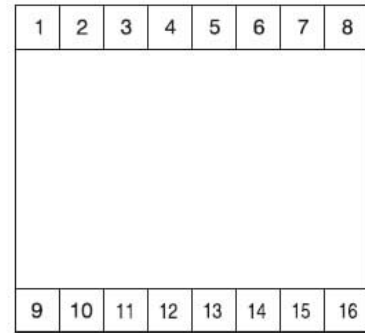
TX7-Ua / TX7-2U



1 : TC +ve / RTD 1
 2 : TC -ve / RTD 2
 3 : RTD 3
 4 : Program enable
 5 : Source
 6 : Short for 2 wire RTD

7 : NO
 8 : C
 9 : NC
 10 : NC
 11 : NC
 12 : Source

EX9-Ua / EX9-2U

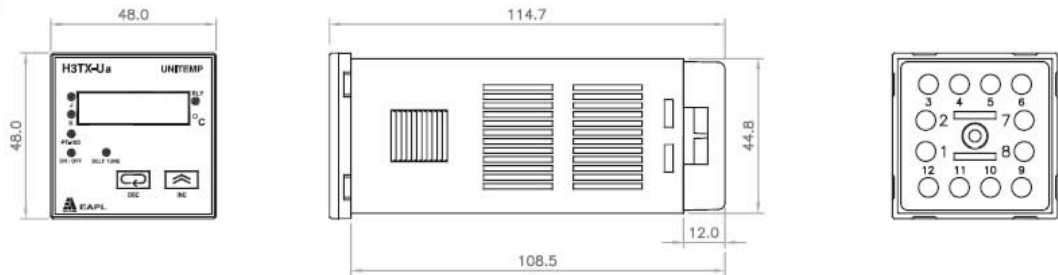


1 : TC+ve / RTD 1
 2 : TC-ve / RTD 2
 3 : RTD 3
 5 : Program enable
 6 : Short for 2 wire RTD

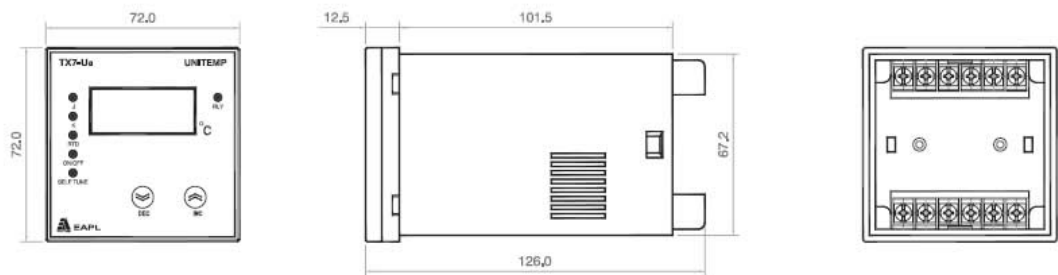
9 : NO
 10 : C
 11 : NC
 15 : NC
 16 : Source

Dimensions

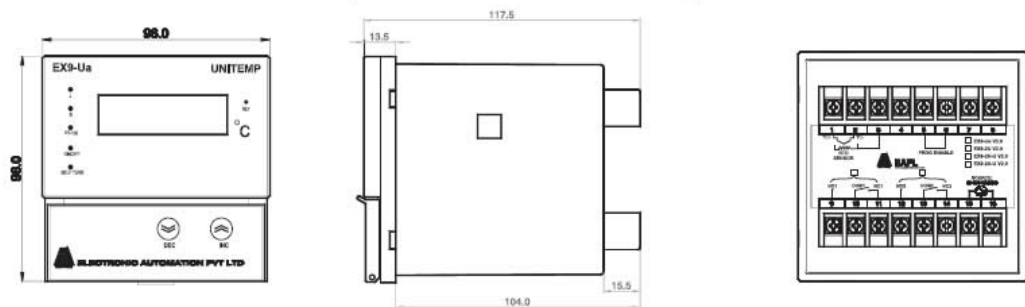
H3TX-Ua / H3TX-2U



TX7-Ua / TX7-2U



EX9-Ua / EX9-2U



NOTE : ALL DIMENSIONS ARE IN mm.

Accessories

- **Front Protective Cover:** The front protective cover shields the front panel from dust and dirt and water drip. It also prevents the set value from being altered due to accidental contact with tact switches.
- **Back Protective Cover:** Back protective cover (H3TX & TX7) protects the user from live wires.
- RC filter (Snubber)

Caution

- Select the right thermocouple.
- Use snubber circuit across the load.

- Do not give power across sensor, program enable terminals.
 - Use 2.5mm² U-type lugs with sleeve to make proper & even contacts.
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