

## Product Features



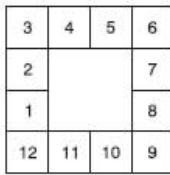
- Din Sized enclosure for panel mounting.
- Digital dual display for set value and process value.
- FUNCTION (programmable): ON DELAY / INTERVAL / CYCLIC ADJUSTABLE.
- TYPE OF START SIGNAL (programmable) : NO START / PULSE / CONTINUOUS.
- One of the relay c/o can be configured as INSTANT or DELAYED.
- Program lock is provided for function, relay configuration, type of start signal and range selected.
- RESET cum START facility can be achieved either through front buttons Or Rear terminals
- HOLD/RESTART facility during power failure conditions.

## Specifications

Model	H3PT-MU	C3PT-MU	E3PT-MU
Function	On-Delay / Interval / Cyclic (up counting)		
Rated supply voltage	85V to 270V AC, 85V DC to 270V DC		
Rated frequency	50 / 60Hz $\pm 5\%$ for AC supply only		
Power consumption	AC approx. 4VA / 1W, 5W for DC		AC approx. 15VA / 3W
Control relay output			
Relay 1*	1c/o rated for 5A@250V AC / 28V DC, resistive load		
Relay 2**	1c/o rated for 5A@250V AC / 28V DC, resistive load		2c/o rated for 5A@250V AC / 28V DC, resistive load
Display	4 digit 7 segment LED 0.28"	4 digit 7 segment LED 0.56"	
Start cum reset signal	Potential free signal for minimum 250msec		
Time range	0.10secs to 99hrs 59min.		
Range selection	Range	Minimum	Maximum
	S/S	00s c 10ms	59s c 99ms
	M/S	00m c 01s	59m c 59s
	H/M	00h c 01m	99h c 59m
Setting accuracy	$\pm 1\% \pm 50\text{msec}$		
Repeat accuracy	$\pm 0.05\%$ max. $\pm 50\text{msec}$		
Recovery time	2sec minimum		
Resetting time	N.A		
Variation due to voltage change	$\pm 1\%$ max $\pm 100\text{msec}$		
Variation due to temp. change	$\pm 2\%$ max $\pm 100\text{msec}$		
Variation due to frequency change	$\pm 1\%$ max $\pm 100\text{msec}$		
Ambient temperature	Operationc -10°C to +55°C, Storagec -25°C to 80°C		
Humidity	Max. 85% RH @ 40°C		
Service life (under no load)	10 <sup>6</sup> operation minimum		
Electrical life (under full load)	10 <sup>5</sup> operation minimum		
Rated frequency of operation	1800 $\pm 5\%$ operations per hour maximum		
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) 750VAC, 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)	68 x 68mm (W x H)	92 x 92mm (W x H)

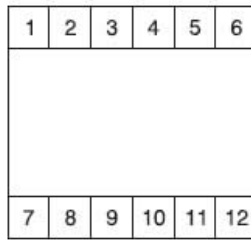
## Connections

### H3PT-MU



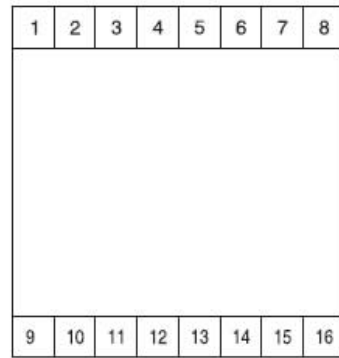
- 1 & 2 : Source
- 3 & 5 : Short-Hold, Open-Restart
- 4 & 5 : Short PGM enable  
Open PGM Disable
- 5 & 6 : Start / Reset
- 7, 8, 9 : NC1, C1, NO1  
(Delayed/Instant)\*
- 10, 11, 12: NC2, C2, NO2 (Delayed)

### C3PT-MU



- 5 & 6 : Source
- 2 & 4 : Short-Hold, Open-Restart
- 2 & 3 : Short-PGM enable  
Open-PGM Disable
- 1 & 2 : Start / Reset
- 7, 8, 9 : NO1, NC1, C1 (Delayed/Instant)\*
- 10, 11, 12: NO2, NC2, C2 (Delayed)

### E3PT-MU

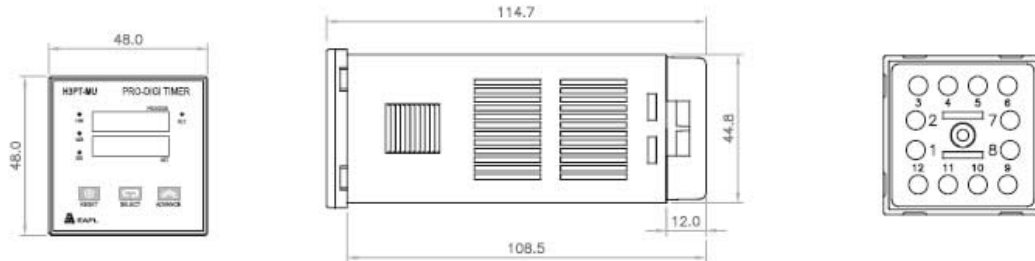


- 4 & 5 : Start / Reset
- 1, 9, 10 : C1, NC1, NO1  
(Delayed)
- 2, 11, 12 : C2, NC2, NO2  
(Delayed)
- 3, 13, 14 : C3, NC3, NO3  
(Delayed / Instant)\*
- 15 & 16 : Source
- 7 & 8 : Short-Hold  
Open-Restart
- 6 & 7 : Short PGM enable  
Open PGM Disable

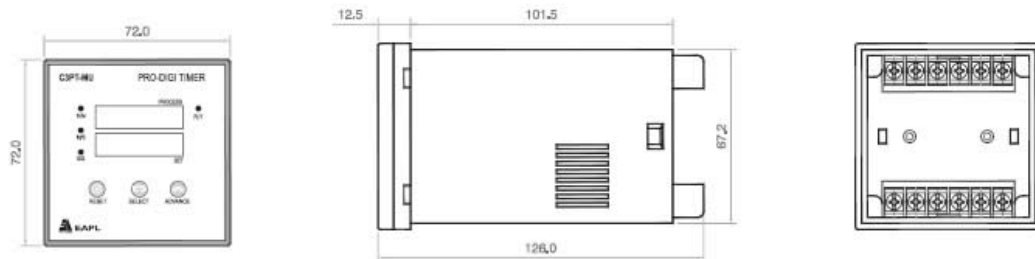
\*Instant in case of 1 relay selected during programming, else delayed contact

## Dimensions

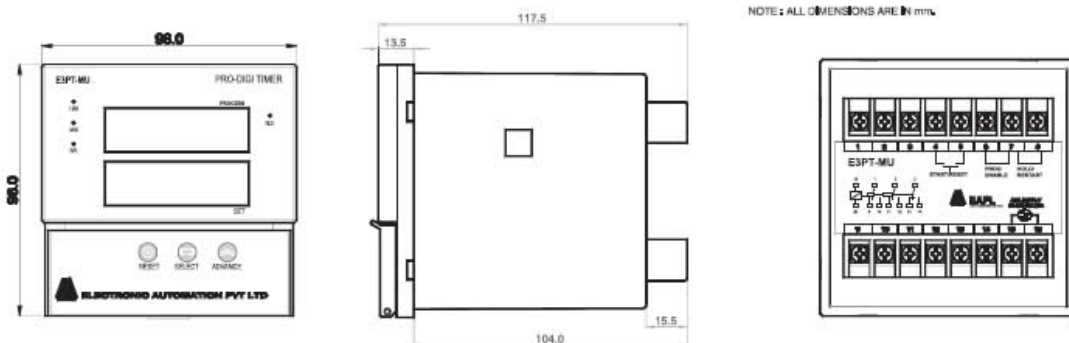
### H3PT-MU



### C3PT-MU



### E3PT-MU



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 (H3PT-MU, C3PT-MU) protects the user tact switches.

## Caution

- Do not change the time range & set time while the timer is in operation
- Application of voltage other than the specified one, will permanently damage the timer.
- 2 Use 2.5mm<sup>2</sup> U-type lugs with sleeve

