H/C/E Series-Digital Timers
H3PT-MU/C3PT-MU/E3PT-MU/DTMR-1

Features

- Function (programmable): ON DELAY / INTERVAL / CYCLIC.
- Type of start signal (programmable): No START SIGNAL / PULSE# / CONTINUOUS.
- 1 c/o can be configured by the user to function as INSTANT or DELAYED.
- Program lock facility is available.
- Hold/Restart – User Selectable.

Ordering Information

Models	Function	Source Voltage	Time Selection	Output
H3PT-MU	Multifunction Up-counting	85V to 270V AC / DC	0.1Secs to 99Hrs 59Mins	1C/o Instant*, 1 C/o Delayed or 2c/o Delayed
C3PT-MU				
E3PT-MU				1C/o Instant*, 2 C/o Delayed or 3 C/o Delayed
DTMR-1**	On Delay Timer			1 C/ O Rated for 5A

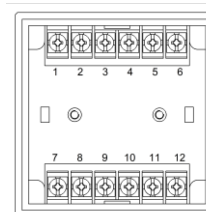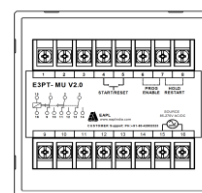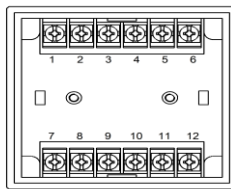**Note:** *Instant feature is not available when cyclic function is programmed
When pulse signal is initiated the timer resets and immediately the new cycle begins
** In DTMR-1 only On delay Function is available.

Front View H3PT-MU   C3PT-MU   E3PT-MU   DTMR-1
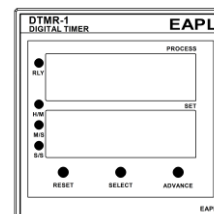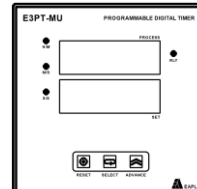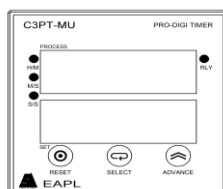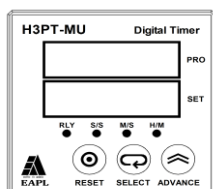
Rear View H3PT-MU   C3PT-MU   E3PT-MU   DTMR-1
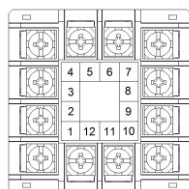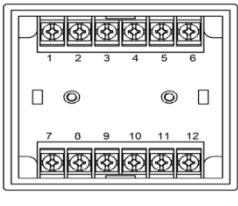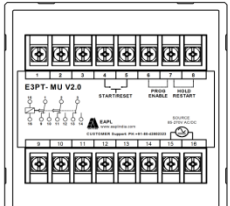
Over-all and cut-out Dimensions

Models	Dimension Details in mm			Cut-out Dimension in mm	
	W	H	D	W	H
H3PT-MU	48	48	95.5	46	46
C3PT-MU	72	72	128.5	69	69
E3PT-MU	96	96	95.5	92	92
DTMR-1	72	72	84	69	69

■ Specifications

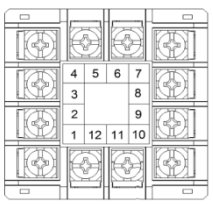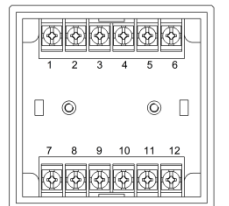| Parameters Models	H3PT-MU	C3PT-MU	E3PT-MU	DTMR-1
Function	ON DELAY / INTERVAL / CYCLIC			ON DELAY
Rated supply Voltage	85V to 270V AC/DC			
Rated Frequency	50/ 60Hz ± 5% for AC only			
Power consumption	AC Approx. 10VA DC Approx. 5W		AC Approx.15VA DC Approx. 6W	AC Approx. 10VA DC Approx. 5W
Control Output	RLY 1 & RLY2 - 1 C/ O Rated for 5A @ 250 VAC /30VDC(NO) 3A @ 250VAC / 30VDC (NC)	RLY 1 & RLY2 - 1 C/ O Rated for 5A @ 250 VAC /28 V DC resistive load	Instant :1 C/O rated for 5A@250VAC/28VDC resistive load Delay : 2 C/O rated for 5A @250V AC/28VDC resistive load	RLY 1 & RLY2 - 1 C/ O Rated for 5A @ 250 VAC /28 V DC resistive load
Display	4 digit 7 segment LED 0.28"	4 digit 7 segment LED 0.56"		
Time range	0.10 Sec to 99 Hrs 59Mins.			
Range selection	Range Min Max S/S 0.1Sec 59.90Sec M/S 1Sec 59.59Min H/M 1Min 99.59Hrs			
Setting accuracy	± 1% ± 50mSec			
Repeat accuracy	± 0.05% max. ±50mSec			
Recovery Time	2 Sec minimum			
Start & Reset signal	250mSec minimum(Potential free)			
Variation due to voltage change	± 1% max ± 100mSec			
Variation due to temperature change	± 2% max ± 100mSec			
Variation due to frequency change	± 1% max ± 100mSec			
Ambient temperature	Operation : -10°C to +55°C Storage : -25°C to +80°C			
Humidity	MAX 85% RH @ 40ºC			
Service life(under no load)	10^6 operations minimum			
Electrical life(under full load)	10^5 operations minimum			
Rated frequency of operation	1800±5% operations per hour max			
Insulation resistance	>100M ohms @ 500V DC			
Dielectric strength	a) 2.5KV AC, 50Hz for 1 minute. (Between current carrying & noncurrent carrying parts) b) 1.5KV AC, 50Hz for 1 minute.(Between contacts & control circuit) c) 750V AC, 50Hz for 1 minute. (Between non-continuous contact of the relay)			
Electrical connection	Screw type terminals with self lifting clamps			
Over-all Dimension(WXHXD)	48 x 48 x 95.5mm	72X72X128.5mm	96X96X95.5mm	72X72X84mm
Cut-out Dimension(WXH)	46X46mm	69X69mm	92X92mm	69X69mm

Connection and Terminal Details

	H3PT-MU	C3PT-MU	E3PT-MU	DTMR-1
Connection Details				
Terminal Details	**1&2:**Source Voltage **7&9:**Short-Hold Open-Restart **8&9:**Short-Program Enable Open: Time setting Possible **9&10:**Start Signal **12,11,3:**C1,NC1,NO1(Rly-1) **5,6,4:** C2,NC2,NO2(Rly-2)	**1&2:**Start/Reset **2&3:**Short- Program Enable Open- Digit Programming Possible. **2&4:**Short- Hold Open: Restart **5&6:** Source Voltage **7,8,9:** NO,NC,C (Rly-1) **10,11,12:** NO,NC,C (Rly-2)	**4 & 5 :** Start / Reset **6 & 7 :** Short - Program Enable Open- Digit programming possible **7 & 8 :** Short – Hold Open – Restart **3, 13, 14 :** C3, NC3, NO3 (Rly-1) **1,9,10 :** C1, NC1, NO1 **2, 11, 12 :** C2, NC2, NO2 (Rly-2) **15 & 16 :** Source Voltage	**1&2:**Start/Reset **2&3:**Short- Program Enable Open- Digit Programming Possible. **2&4:**Short- Hold Open: Restart **5&6:** Source Voltage **7,8,9:** NO,C,NC (Rly-1) **10,11,12:** NO,C,NC (Rly-2)