

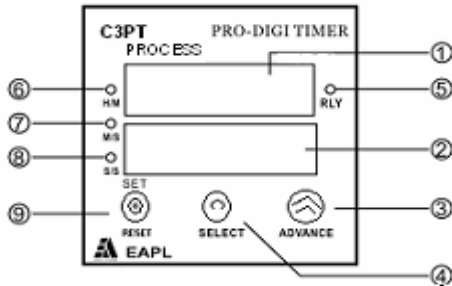


# OPERATING INSTRUCTIONS

Model : C3PT

|           |            |
|-----------|------------|
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| DATE :    | 25/02/2008 |

## Front panel layout:



- PROCESS:** Displays the process value.
- SET:** Displays the set value.
- ADVANCE:** Select time range and increment set values
- SELECT:** Programming Switches
- RELAY LED:** Indicates the relay status when the relay changeover takes place.
- H/M LED:** Hour/Minute selection
- M/S LED:** Minute/Second selection
- S/S LED:** Second/Second Selection
- RESET:** To reset the timer

## Terminal Details:

|   |   |   |    |    |    |
|---|---|---|----|----|----|
| 1 | 2 | 3 | 4  | 5  | 6  |
|   |   |   |    |    |    |
| 7 | 8 | 9 | 10 | 11 | 12 |

- 5, 6 Source
- 2,4 Short - Hold Open -Restart
- 2,3 Short-PGM Enable Open -PGM Disable
- 1,2 Start/Reset
- 7,8,9 NO,NC,C - Delayed Contact
- 10,11,12 NO,NC,C - Instant Contact

C3PT is a Programmable Digital ON Delay timer with instant contact having range from 100mSecs to 99hrs 59mins and having a universal voltage of 85V to 270 VAC/DC.

## Functions:

- Apply rated voltage to the source terminals 5 & 6 On application of power, the instant relay contact changes over immediately. PROCESS display shows '00.00' and SET Display shows the set value. The range indication LEDs indicate the range selected.
- Set the required time range by using Select and Advance Buttons, the Process display shows '00.00' and Set display shows set value and selected range LED is on.
- By shorting terminals 1 & 2 for 250 mSec (potential free short), time starts functioning & PROCESS display shows the process value. When process value reaches the set value timing operation stops & relay comes ON. Again by shorting the terminals 1 & 2 relay switches OFF & timer restarts.
- When timer is in run mode and program mode is selected to change the settings; the previous timing operation of the timer stops running

and disables the start signal. When the timer is back to Run mode a fresh start signal (1 & 2) is required for the timer.

- Program Enable/Disable: To enable program function short 2 & 3 and to disable open shorting 2 & 3.
- Restart: When the timer is in operation and upon failure of power, the timer resets and waits for a fresh signal from reset

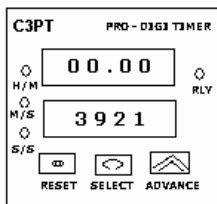
### Special Instruction:

- **Hold:** When the timer is in operation and upon failure of power, the timer retains the data and executes the balance on resumption of power. A fresh start signal is not required in this case.

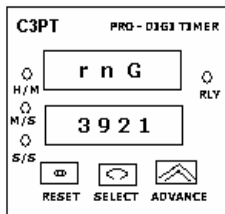
### How to program:



Example: Set time - 59.30 Sec.Sec

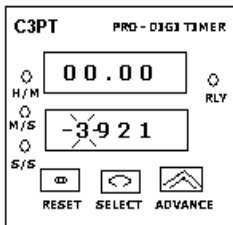
- Short terminals 2 & 3 for program enable
- Set display shows previous set value
- Process display shows "00.00" as shown below.



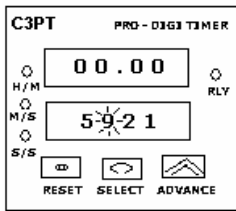
- Press "SELECT"  once, SET display shows previous set value & PROCESS display shows "r n G" (time range)





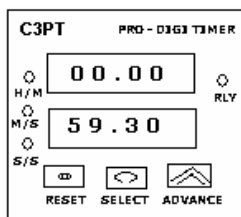
- Press "ADVANCE"  till S/S LED lights up
- Press "SELECT"  again ; previously set timing is displayed with MSD flashing



- Press "ADVANCE"  till display shows 5
- Press "SELECT"  again ; 2<sup>nd</sup> digit starts



- Press "ADVANCE"  till display shows 9, (repeat same setting for 3<sup>rd</sup> and 4<sup>th</sup> digit for setting the required range, i.e 30)
- Press "SELECT"  again; the SET value is saved in memory the PROCESS value is displayed as 00.00, now the timer is ready for operation.



- Same procedure shall be followed for different time range requirement.

#### Programming HOLD condition:

- Short terminals 2 & 4 for "HOLD" or Open terminals 2 & 4 for restart.

#### Note:

- If the source voltage shoots beyond the prescribed voltage, the units will be damaged beyond repairs. Suitable protection should be taken care off.
- The Load current of the control output should be within the rated specified, else use contactor.
- Please ensure proper wiring at input and output terminals.
- Terminals screws are tightened fully to required level for proper contact.
- The end user is required to study and decide the product to suit its application and environment. The company does not accept any consequential liabilities arising out of use of this product.
- Specification are subject to change as development is a continuous process.