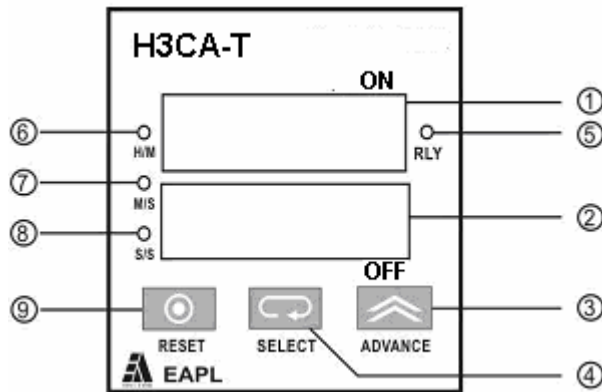




OPERATING INSTRUCTIONS
Model : H3CA-T

OPI No. : OPI/100
PAGE : 1 of 3
DATE : 29/07/2008

Front panel layout:



1. **Top Display Window:** Displays the On Process value.
2. **Bottom Display Window:** Displays the Off Process value.
3. **ADVANCE:** To increment the digits
4. **SELECT:** Programming Switches
5. **RELAY LED:** Indicates the relay status when the relay changeover takes place. (When 'ON' Time is in progress)
6. **H/M LED:** Hour/Minute selection
7. **M/S LED:** Minute/Second selection
8. **S/S LED:** Second/Second Selection
9. **Reset:** To reset and start the process

Terminal Details

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

- 1, 2 Source
- 3, 5 Short-Hold, Open-Restart
- 4, 5 Program Enable (Short)
Program Disable (open)
- 7,8,9 NC,C,NO-Relay Contact
- 10,11,12 NC,C,NO-Relay Contact

Function:

H3CAT is a Programmable Digital On/Off Cyclic timer with range from 100mSecs to 99hrs 59mins & having a universal voltage of 85V to 270 VAC/DC.

Programming:


- On application of power at source terminal 1 & 2, the relay contacts changes over immediately.
- The top Display window starts displaying the elapsed time for 'ON' Time and the relay after completion of ON time, will change to its initial position and the top display will show 0000.
- The bottom display window starts displaying elapsed OFF time and the relay after completion of OFF time, will change to its initial position and the bottom display will show 0000.
- This sequence ON/OFF cycle continues as long as power is applied to the timer.

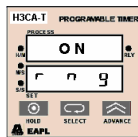
Special Instruction:



- **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.
- **Reset:** Front panel is having the RESET button to initiate Reset to zero & start the fresh signal time from the beginning.
- **Program Enable/Disable:** To enable program function, short 3 & 5 and to disable open shorting between 3 & 5.
- **Restart:** When the timer is in operation and upon failure of power, the timer resets and starts from beginning
- Do not apply power to terminals 3, 4, & 5. Terminals are potential free contacts.

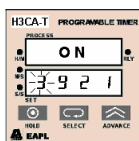
How to program:

Example: Set time - ON - 59.30 Secs -OFF 59.30

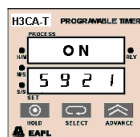
- Short terminals 3 & 5 (P1-P2)
- Press "SELECT"  once, Top display shows "ON" & bottom display shows "r n G" (time range)



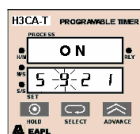
- Press "ADVANCE"  till S/S LED lights up
- Press "SELECT"  again ; previously set timing is displayed with MSD flashing




- Press "ADVANCE"  till display shows 5

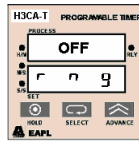


- Press "SELECT"  again ; 2nd digit starts flashing



- Press "ADVANCE"  till display shows 9, (repeat same setting for 3rd and 4th digit for setting the required range, i.e 30 Sec

- Press SELECT"  again; the ON set value is saved in memory and top display shows 'OFF' and bottom display shows 'r n g '



- Repeat the steps to set OFF time
- Press select button to save the set values in memory
- Remove the source and reapply the source for timer to start functioning.
- Same procedure shall be followed for different time range requirement.

Note:-

- If the source voltage shoots beyond the prescribed voltage, the units will be damaged beyond repairs.
- 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.
- Terminal 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.
- Specifications are subject to change as development is a continuous process.