



OPERATING INSTRUCTIONS

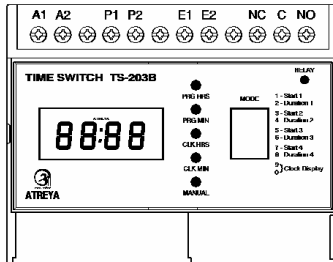
Model : TS 203B

OPI No. : OPI/050

PAGE : 1 of 4

DATE : 14/06/2006

Front panel layout:



Terminal Details

A1, A2	:	Supply
P1, P2	:	Clock Setting Enable
E1, E2	:	Program Setting Enable
NC-C-NO	:	Relay Contacts

TS 203B is a 4 program time switch for switching load ON and OFF automatically with respect to real time clock. Its simple programming makes it user friendly for a host of real time clock based application.

How to set clock:

- 1) Short terminals P1 and P2. The shorting should be **potential free**.
- 2) Connect mains to terminals A1 and A2. The LCD displays the real time clock in 24 Hrs format with dots (:) blinking in between Hrs and Mins.
- 3) To alter the Hrs press “Hrs” button on the front panel. The display rolls between 00 to 23.
- 4) To alter the Min press “Min” button on the front panel. The display rolls between 00 to 59.
- 5) After adjusting the real time clock, disconnect mains and remove the shorting across P1 and P2. Removal of shorting across P1 and P2 disables the clock setting button. This facility will prevent tampering of clock.

EAPL

Note:

1. In case of power failure, the real time clock display goes off. However, the clock continues to run with the battery back up provided in the unit. The display comes ON after a small delay when the power is resumed.
2. TS 203B allows the user to program 4 switching in span of 24 Hrs. By selecting the mode switch, position 1 through 8, the start time and duration time of each program can be set.

Mode switch position

Function

1	To set start time of program 1
2	To set duration time of program 1
3	To set start time of program 2
4	To set duration time of program 2
5	To set start time of program 3
6	To set duration time of program 3
7	To set start time of program 4
8	To set duration time of program 4
9	To display real time clock (Mode switch in 0 or 9)
0	

How to program:

1. Short the Terminals E1 and E2. The shorting should be potential free.
2. Keep the mode switch in the required position. Press program “Hrs” or “Min” button to program required timing.
3. Repeat the previous step for remaining settings.
4. After setting 4 programs, the mode switch must be kept either in position 0 or 9 to save time settings, as well as to display real time clock.
5. After program setting remove the shorting of E1 and E2.

6. Manual Over ride facility:

- a. TS 203B has been provided with manual over ride facility. By pressing the manual button provided on the front panel, the user can change the output relay status (ON to OFF and vice versa) thereby over riding the actual program.
- b. However, this facility is conditional and gets terminated when any of the following occurs or attempted.

a)Power failure

b)Altering and clock

c)Completion of the originally intended program

Note: The manual over ride status is indicated by flashing of the real time clock.

Battery Installation:

•Remove the front cover and install 2 x 1.5 V AA size batteries as per polarity marked.

For longer life use Duracell batteries only.

NOTE:

DO NOT apply potential to terminals P1 and P2 and E1, E2 as this will damage the time switch

permanently. Shorting of P1 and P2 & E1, E2 should be potential free and should be with mains

disconnected.

DO NOT reverse the battery polarity as this will damage the time switch permanently.

DO NOT source the output relay by tapping the line from A1 or A2 terminals as this may lead to

malfunction of the time switch. Use Separate wires for sourcing the time switch and control relay.