QAT-R-DM – (M or H) ELECTRONIC TIME SWITCH

Installation and programming guidance

GENERAL: The programmable time switch can be used to automatically control pool pumps, lights, geysers. etc.

Important Notes:

1. The time switch has a backup power feature which requires 12 hours to fully charge. (A fully charged time switch will retain its program and time for up to 24 hours, in the case of a power failure).
2. Pushing any button during a power failure will reduce the backup power period.
3. CBI advises that the time switch be installed by a suitably qualified person.

ISOLATE POWER BEFORE INSTALLATION

- Install the time switch on either mini rail or din rail with the clock screen up-right.
- Wire the time switch according to **Figure 1** or **Figure 2**.

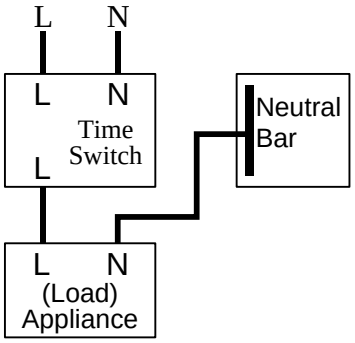

Figure 1: DB wiring

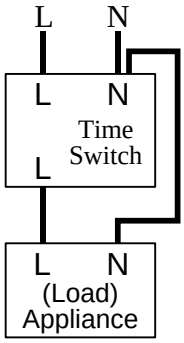

Figure 2: Stand alone wiring

WARNING: Do not connect more than 21A resistive or 10A inductive loads to the time switch.
For loads larger than 21A resistive or 10A inductive, connect a suitable contactor to the time switch output. Refer to **Figure 3** for connections.

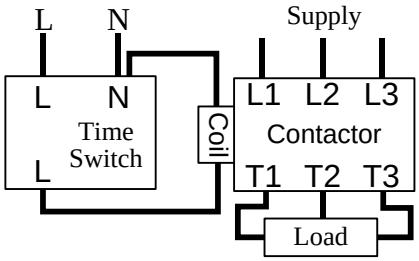

Figure 3: Wiring a contactor for loads greater than 21A resistive or 10A inductive.

TECHNICAL DATA

PRODUCT SPECIFICATION	
Supply Voltage	230 VRMS 50 Hz
Resistive load (Geysers, under floor heating, lights)	Maximum 21 A
Inductive load (Pool pump, air conditioners)	Maximum 10 A
Degree of Ingress Protection	IP41(Not waterproofed)
Endurance	25 000 (minimum) Operations at maximum load
Operating Temperature	-20 °C to +55 °C
Reserve full charging time	12 hours
Single segment period	30 minutes
Maximum period for all segments	48 x 30 minute segments
Clock accuracy	2 to 4 minutes per month

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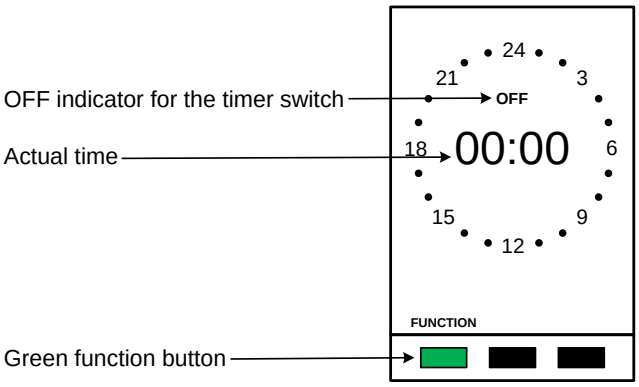
PROGRAMMING

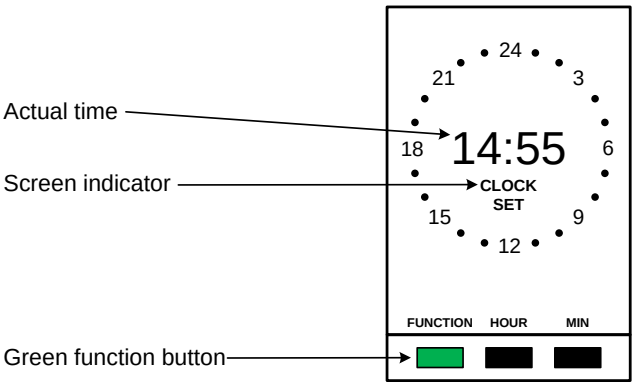
When the timer is powered up screen 1 (main screen) will appear.

SCREEN 1: ACTUAL TIME INDICATOR



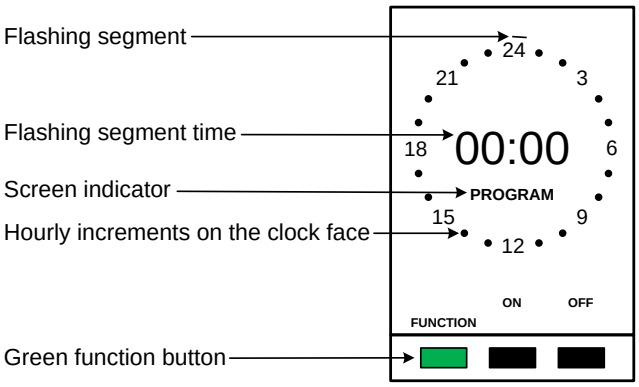
PRESS – Green FUNCTION button once to move to screen 2

SCREEN 2: SET ACTUAL TIME



PRESS – HOUR and MIN button to set actual time
PRESS – Green FUNCTION button once to move to screen 3

SCREEN 3: PROGRAM TIMER ON / OFF



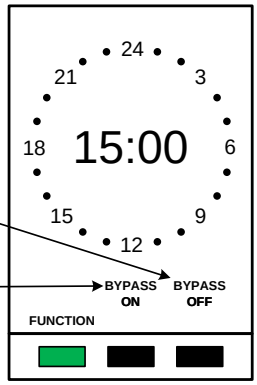
PRESS – OFF button to get to start program time (load – OFF)
PRESS – ON button repeatedly to set the program "on" duration (Load – ON)

SCREEN 4: BYPASS ON OR OFF

The timer program is bypassed during this screen

PRESS "BYPASS-OFF" button the timer operates according to the set program.
The BYPASS-OFF flashes on the display.

PRESS "BYPASS-ON" button to switch the load on permanently.
The BYPASS ON flashes on the display.



PRESS – Green FUNCTION button to move to screen 1

EXAMPLE: FOR AN APPLIANCE TO BE ON BETWEEN 17:00 AND 21:00

PRESS – OFF button until the program time indicate 17:00

PRESS – ON button repeatedly until the program time indicates 21:00

PRESS – FUNCTION button once to move to screen 4

Segment display of the programmed time duration

Additional Notes:

- The timer goes through a self-test at start up, wait for the timer to finish before entering any data.
- The program cycle repeats every day.
- If no button is pressed, after 1 minute the timer will revert to screen 1.
- If desired, more than one Load-ON period can be programmed, e.g. Appliance ON between 04:00 - 07:00 and 13:00 - 16:00.

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