QAT-TRDM – ELECTRONIC TIME SWITCH
Installation and Programming Guide

General

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

Important Notes

1. During a power failure, the ⌚ symbol is displayed and the time switch enters standby. After a few hours, the display will turn off completely.
2. The time switch has a backup power feature which requires 1 hour to charge.
3. In the event of a power failure, a fully charged time switch will keep time for up to 24 hours.
   The programmed schedule is always retained.
4. CBI advises that the time switch be installed by a suitably qualified electrician.

Installation

1. Isolate supply power before installing time switch.
2. Install the time switch on either mini rail or DIN rail (remove the escutcheon adapter for DIN).
3. Connect the time switch according to Figure 1 or Figure 2. Use a suitable contactor (Figure 3) if necessary to switch higher current. Strictly obey markings for Line and Neutral poles.
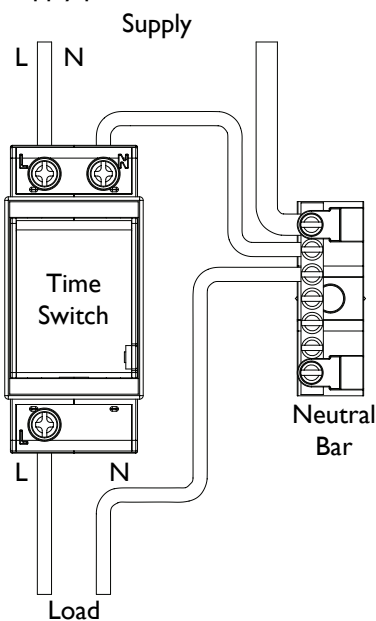4. Apply power and set the time and desired program schedule.
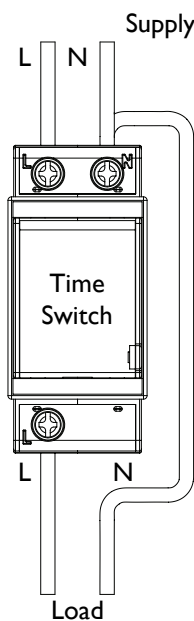

Figure 1: DB wiring
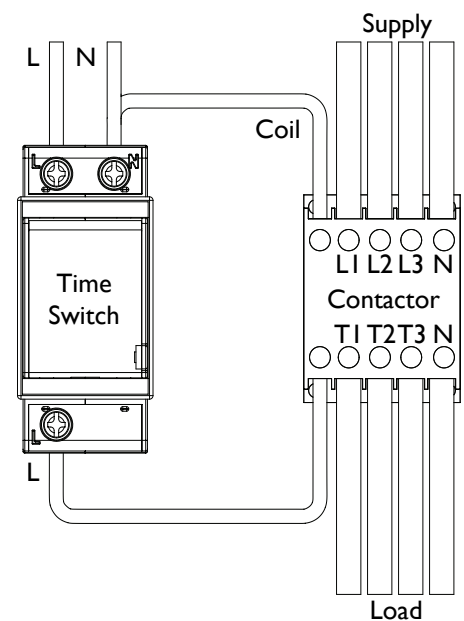

Figure 2: Stand alone wiring

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

Technical Data

Parameter		Specification
Supply Voltage		230 V$_{RMS}$ 50 Hz, 1Ph
Maximum Load	Resistive (Geysers, under floor heating, lights)	21 A
	Inductive (Pool pump, air conditioners)	10 A
Contact Endurance		20 000 (minimum) Operations
Degree of Ingress Protection (When installed in distribution panel)		IP40 (not waterproofed)
Operating Temperature		-20 °C to +55 °C
Single Segment Period		15 min.
Maximum Period for all Segments		96 x 15 min. Segments
Clock Accuracy		± 3 min. per month
Time Retention (Power Outage)		24 h

Programming Instructions

TOUCH BUTTONS 👆 Use the flesh of your index finger on touch sensitive areas.
LONG PRESS 👆 Press and hold the named touch button for 2 seconds.

A. Home screen

On this screen, the timer is operating according to programmed schedule. The home screen displays the current time. The present switch status is indicated as ON or OFF. From here you can enter setup functions (See B and C) or go to manual mode (See D).

B. Setting the clock

1. From the Home screen, press and hold 👆 FUNCTION until **CLOCK SET** is displayed.

💡 FUNCTION doesn't work? First exit the **BYPASS** feature.

2. Use the 👆 HOUR and 👆 MINUTE buttons to set the clock to the current time of day in 24-hour format.

3. Press and hold 👆 FUNCTION to store the time and go to Program.

C. Setting the program schedule

💡 Decide now what times the load should be on. Example: hot water geyser on from 05:30 to 07:00.

C.1. From the Home screen, go via Clock Set and then to Program by pressing FUNCTION. **PROGRAM** is displayed. The programming starts at 00:00 (midnight).

💡 A program schedule is built up in 15-minute segments, by pressing OFF when the load must be off and ON when the load must be on.
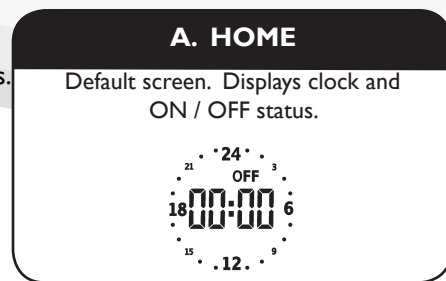
C.2. Example (continued): The geyser must be off until 05:30, therefore repeatedly press (or hold) 👆 OFF until 05:30 is displayed.

C.3. The geyser must be on until 07:00, therefore repeatedly press (or hold) 👆 ON until 07:00 is displayed.
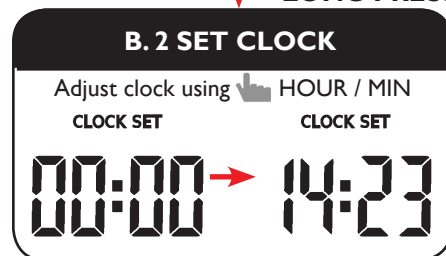
💡 You may repeat steps C.2 and C.3 for additional schedules e.g. geyser also off until 18:15 and on until 21:00.

💡 Made a mistake? Hold 👆 OFF to erase all (or some) segments and start over with step C.2.
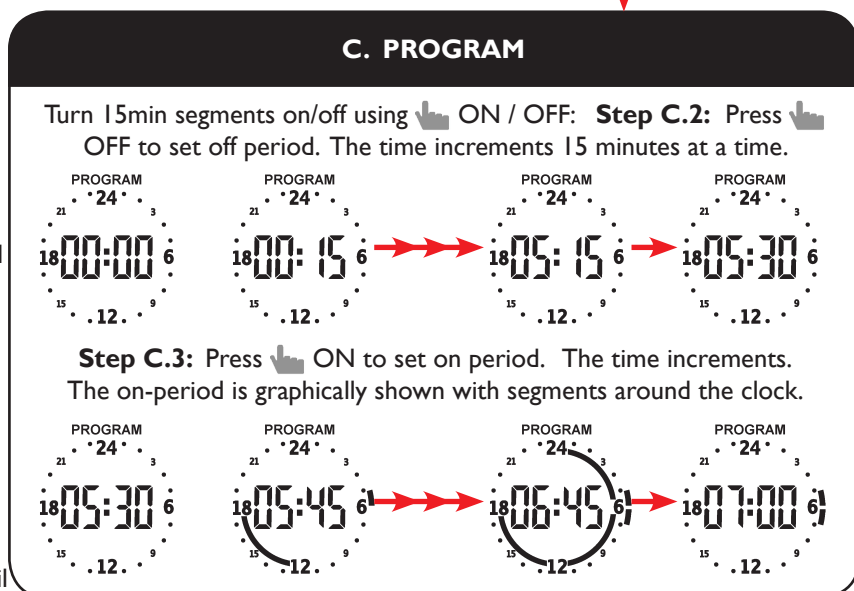
C.4. Press and hold 👆 FUNCTION to store the new program and return to Home.

A. HOME

Default screen. Displays clock and ON / OFF status.

👆 **FUNCTION LONG PRESS**

B. 2 SET CLOCK

Adjust clock using 👆 HOUR / MIN

CLOCK SET → CLOCK SET

00:00 → 14:23

👆 **FUNCTION LONG PRESS**

C. PROGRAM

Turn 15min segments on/off using 👆 ON / OFF: **Step C.2:** Press 👆 OFF to set off period. The time increments 15 minutes at a time.

PROGRAM 00:00 → PROGRAM 00:15 → PROGRAM 05:15 → PROGRAM 05:30

Step C.3: Press 👆 ON to set on period. The time increments. The on-period is graphically shown with segments around the clock.

PROGRAM 05:30 → PROGRAM 05:45 → PROGRAM 06:45 → PROGRAM 07:00

👆 **FUNCTION LONG PRESS**

D. Manually bypass the program schedule (Optional)

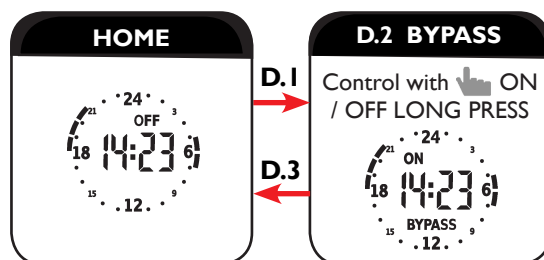The timer has a full manual control feature to override the program. Example: keep the geyser switched on for the weekend.

1. From home screen, press 👆 BYPASS until **BYPASS** is flashing.

2. Control the load as desired with a long press 👆 ON / OFF. The time switch will remain in this condition, until you exit Bypass.

To return to normal time switch operation, exit Bypass:

3. Long press 👆 BYPASS to return to Home. The **BYPASS** indicator disappears.

👆 **BYPASS LONG PRESS**

HOME — 14:23 OFF

D.1 →

D.3 ←

D.2 BYPASS

Control with 👆 ON / OFF LONG PRESS

14:23 ON BYPASS