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.
2. The time switch has a backup power feature which requires 30 minutes 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 person.

Installation
1. Isolate supply power before installing time switch.
2. Install the time switch on either mini rail or DIN rail (remove the escutcheon clip 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.
   Observe markings for Line and Neutral poles.
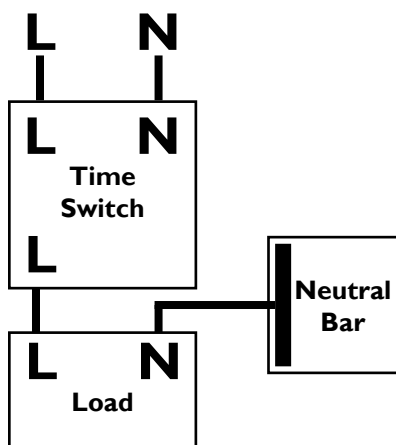4. Apply power and set the time and desired program schedule (see overleaf).
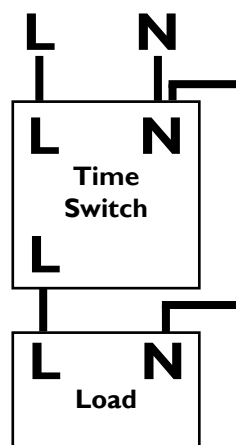

Figure 1: DB wiring
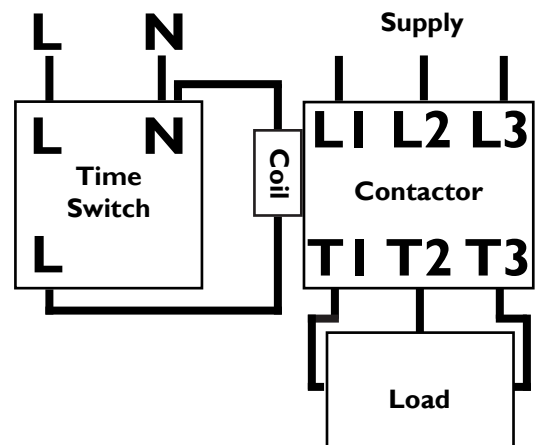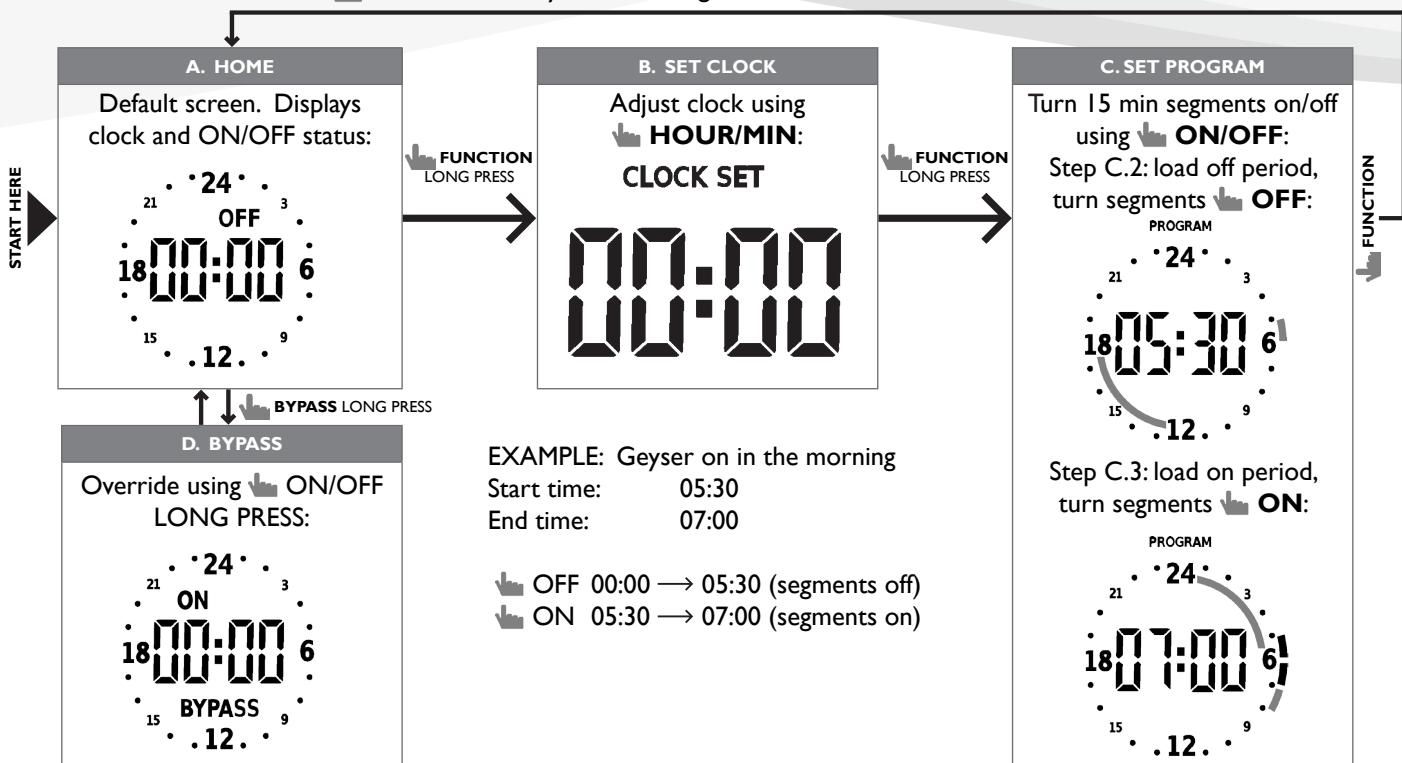
Figure 2: Stand alone wiring

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		25 000 (minimum) Operations
Degree of Ingress Protection		IP41(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

NEW TOUCH BUTTONS 👆 Use the flesh of your index finger on the screen

START HERE ▶

A. HOME	B. SET CLOCK	C. SET PROGRAM
Default screen. Displays clock and ON/OFF status:	Adjust clock using 👆 **HOUR/MIN**: **CLOCK SET**	Turn 15 min segments on/off using 👆 **ON/OFF**:

👆 **FUNCTION** LONG PRESS

👆 **FUNCTION** LONG PRESS

👆 FUNCTION

D. BYPASS

Override using 👆 ON/OFF LONG PRESS:

👇 **BYPASS** LONG PRESS

Step C.2: load off period, turn segments 👆 **OFF**:

Step C.3: load on period, turn segments 👆 **ON**:

EXAMPLE: Geyser on in the morning
Start time: 05:30
End time: 07:00

👆 OFF 00:00 ⟶ 05:30 (segments off)
👆 ON   05:30 ⟶ 07:00 (segments on)

A. Home Screen
The home screen displays the current time and the switch on/off status according to the program schedule.

B. Setting the Clock
1. From the Home screen, press and hold 👆 FUNCTION until **CLOCK SET** is displayed.
2. Press the 👆 HOUR and 👆 MINUTE buttons to set the clock to the current time.
3. Press 👆 FUNCTION to store the time.

C. Setting the Program Schedule
☼ Decide when your load should be on e.g. a geyser on from 05:30 to 07:00.
1. From the Home screen, press 👆 FUNCTION until **PROGRAM** is displayed.
   The cursor starts at 00:00.
☼ A program schedule is built up by turning segments on when the load must be on. Before reading further, see the clock diagram of segments on the right.
2. Set all time segments prior to your scheduled start to off*, by repeatedly pressing (or holding) 👆 OFF until the clock indicates the start time e.g. 05:30.
3. Set all time segments during the schedule to on, by repeated pressing (or holding) 👆 ON until the clock indicates the end time e.g. 07:00.
   As you advance the cursor, it will leave a trail of turned-on segments, representing the program.
☼ You may repeat steps 2 and 3 for additional schedules e.g. geyser also on from 18:15 to 21:00.
4. Press 👆 FUNCTION to store the new program and return to home screen.

Notes:
☼ If any 15 minute segment within a particular hour is set, that hour segment will be lit.
☼ The schedule will be repeated daily.
☼ * Use the HOUR button to step the cursor one hour at a time, without altering the program. This is handy to review your program.
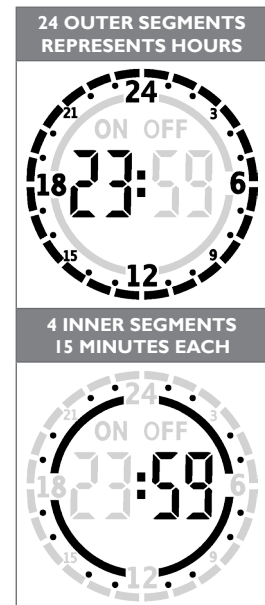
D. Manually Bypass the Program Schedule
To override the normal program e.g. to keep the geyser off over a weekend away:
1. From the home screen, long press 👆 BYPASS until **BYPASS** is displayed.
2. Then select ON or OFF as desired with a long press 👆 ON/OFF.

To return to normal time switch operation:
1. Long press 👆 BYPASS again to return to home screen.

24 OUTER SEGMENTS REPRESENTS HOURS

4 INNER SEGMENTS 15 MINUTES EACH