

Panel Heaters Time Clock Instructions

7day Electronic time switch

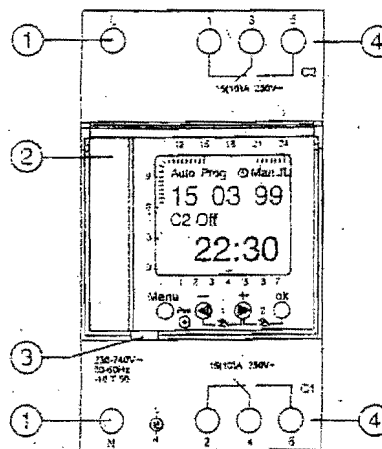
One channel (CPT11)

Two channel (CPT21)

Installation/Operation Instructions

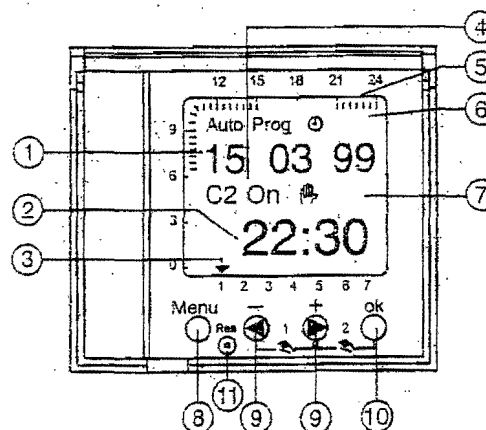
New features

- Very easy to programme
 - Programme displayed on screen
 - Large screen giving clear display of date, time and contact status
 - Programming and display in any one of six languages
 - Automatic summer / winter switching for UK, Europe or USA
- 1 Power supply
 - 2 Slot for leaflet storage
 - 3 Clear, sealable cover over setting controls
 - 4 Volt free change over contacts, rated 16A at unity PF



Key to display and controls

- 1 Date
- 2 Time. Also indicates if on mains "M" or battery "B"
- 3 Day of the week. 1=Monday etc.
- 4 Output contact status. C1,C2 in turn for CPT21
- 5 Display of ON periods by 30 min segments
- 6 Operating mode
 - Auto: automatic operation to the set programme
 - Prog: Programming, checking, modifying and deleting
 - ⌚: Time, date & automatic summer/winter switching
- 7 ON override indication
- 8 Key for switching between operating modes
- 9 Setting keys. Scroll up or down
- 10 Accept key. Press to accept information flashing on screen
- 11 All reset key. Press to clear date, time, programme and language



Installation

The CPT timer is designed to be installed in Square D KQ LoadCentres or Qwikline II Consumer units or any individual enclosure having a symmetrical DIN mounting rail. The time switch is 45mm wide so occupying 2 1/2 MCB spaces. The side / profile is the same as a MCB. Due to the unique design of the KQ and Qwikline II boards these time switches may be fitted in any outgoing position.

If the rating of the connected load exceeds the rating of the CPT contact the load should be slaved, using a suitably rated SQD contactor. See Load table below. The control circuit should be protected by a MCB suitably rated to the circuit cable.

Characteristics

- Supply 230V +/- 10%, 50-60Hz
- Consumption 6VA
- Memory Number of switching operations possible
CPT11: 28, CPT21: 42
- Minimum time between switching operations. 1 minute
- Programme is saved by lithium battery having a life of CPT11: 5 years, CPT21: 12 years
- Back up time CPT11: 3 years, CPT21: 5 years
- Operating temperature range -10 °C to + 50 °C. Install in coolest part of enclosure.
- Protection IP20 to BSEN 60529
- Terminal capacity: 1 x 6mm²
- Weight: 190 g.

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As standards, specifications and designs develop from time to time, always ask for confirmation of the information given in this publication



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Setting date and time

Note: because of the internal battery the time switch can be set and fully programmed before it is installed in the panel.

For all settings the use of the + & - buttons allows you to scroll through the selection available.

Press menu button. Scroll through language choice: English, Italian, Spanish, Portuguese, German, French. Select the required language by pressing OK.

Set year. Set month. Set date. The day of the week will be set automatically. Set hour. Set minutes.

SUMAVIN provides automatic switching between summer and winter time. Four options are available depending on the country of use: UK, Europe, USA or no switching.

The time switch is now ready for programming.

If necessary the process can be started again by pressing the "All reset button"

To modify the date, time or summer / winter settings at any time repeatedly press the "menu" button until the clock symbol

⌚ flashes. Press OK and proceed as above. On completion the time switch will return automatically to AUTO

Programming

To create an operating period it is necessary to programme a switch ON followed by a switch OFF.

A REPEAT function is used to copy a switching operation to other days thus increasing the number of switching operations possible.

Repeatedly press the "menu" button until "Prog" flashes, then press "OK"

There are 5 options:

NEW PROG to build a programme and store it in the memory

CHECK to display the programme and check it is correct

MODIFY to amend the programme that is already in the memory

CLEAR to delete part or all of the stored programme

END to leave the PROG mode and return to AUTO

If you do not agree with the flashing word or value: scroll through the display using + & - keys

If you agree with the flashing word, press OK

If you are lost press "menu" to return to AUTO mode without saving programme

If you do not press a key for 2 minutes the unit will automatically return to the AUTO mode without saving

Temporary or permanent override

For each channel a temporary or permanent override can be applied.

A temporary override applies until the next switching operation. It is applied by pressing two keys simultaneously for less than 2 seconds

For channel 1 (CPT11 & 21) keys "-" & "+"

For channel 2 (CPT21 only) keys "+" & "OK"

The display shows **VERRIDE** ⏏

To revert to AUTO operation press the same two keys again, for less than 2 seconds.

A permanent override is applied if the same two keys are pressed for longer than 2 seconds

Each time the keys are pressed for longer than 2 seconds the contacts change state

The display shows **PERM ON** ⏏, or **PERM OFF** ⏏, as appropriate

To return to AUTO operation press the two keys for less than 2 seconds

Contact loadings

Resistive loads I max = 16A at 250V ac
I min = 100mA at 12V ac
2300VA

Motors

Lighting loads

Resistive	16A
At 0.6 power factor	10A
Incandescent lamps (230V)	2300W
Halogen lamps (230V)	2300W
Series uncorrected/corrected fluorescent tubes	26x36W, 20x58W, 10x100W
Parallel corrected fluorescent tubes; conventional ballast	10x36W (4.7µF), 6x58W (7µF), 2x100W (18µF)
Dual mounted fluorescent tubes	10x(2x58W), 5x(2x100W)
Fluorescent tubes with electronic ballast	9x36W, 6x58W
Dual mounted fluorescent tube with electronic ballast	5x(2x36W), 3x(2x58W)
Fluo-compact lamps with electronic ballast	9x7W, 7x11W, 7x15W, 7x20W
Parallel corrected HQL fluorescent balloon	1x250W (30µF)
Parallel corrected sodium vapour lamp	1x250W (37µF)

For loads exceeding these ratings the time switch should switch the coil of a suitably rated contactor.

Health & Safety at Work, etc Act 1974

To ensure that the equipment described is safe for both personnel and property it should be installed, commissioned and maintained by or under the supervision of qualified persons. Regard should be taken of IEE Wiring Regulations, Codes of Practice, Statutory requirements and any specific instructions issued by Square D. Any operating or installation queries relating to these products should be communicated directly with Square D.

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