Icon Electronics

D4-CWT1 / P49-CWT1
Clockwork timer

Operating instructions
and
Guarantee Certificate
www.icon-electronics.com

Description:

This device is an alternative to a mechanical clockwork timer. The user selects how long the relay will remain energised before starting the cycle. The display indicates the remaining time. In case of a power failure, the timer continues from where it stopped when the power is restored. One of 2 ranges may be selected: 0-99 min. OR 0-99 hours. The timer may also be controlled by the auxiliary terminals.

Operation:

To set the timing value press the "+" or "-" buttons until the display indicates the required time. Start the cycle by pressing "ENTER", or short the "START" terminals. The relay will energise, and the display will count down to zero before the relay is de-energised. On completion of the cycle the display will indicate the last value entered. To start a new cycle for the same length of time press "ENTER" or short the "START" terminals. The timing value may be adjusted at any time (whether the cycle is running or not). To stop the cycle manually press "ENTER". "StoP" will be displayed. Now press "SELECT".

The default time range is 0-99 hours. To change the time range, or activate the aux. terminals, the advanced menu must be selected (see Lock adjustment & full / reduced menu). Once the advanced menu is active, press "MENU" repeatedly until "rang" (range) is displayed. Press "SELECT" to display the current range. Press "+" to toggle between them ("nn.SS" = 0-99 min (min & sec), "hh.nn"= 0-99 hours (hours & min)). Press "MENU" to display "Au.iP" (auxiliary input). Press select to toggle the display between "Yes" and "No". If this setting is set to "Yes", the terminals MUST be shorted before the time will decrement. Press "MENU" to display "rESt" (reset). Press "MENU" to exit the menu, or press "SELECT" twice to reset the software to factory default settings.

When using the auxiliary Terminals:

As a safety feature the relay is de-energised if the aux. terminals are NOT shorted within 15 seconds of the cycle being started. If the short is removed during a timing cycle, the relay is immediately de-energised and the timer is stopped until the terminals are shorted. The display will flash"- - - -" if the timer is stopped due to the short being removed.

Lock adjustment & full / reduced menu:

When not in a menu or sub-menu, press and hold "+" and "-". After 3 seconds the display will show "Loc". If the keys are released at this point, the lock settings feature will be activated (settings may be viewed, but not changed). If the keys are held for an additional 2 seconds, the display will show "FuLL". The full menu will be activated. To toggle the lock feature, or full / reduced menu, repeat the above procedure.

Specifications:

- Timing range: hours & min: 0 to 99 hours   & 59 min
                             min & sec :   0 to 99 minutes & 59 sec
- Accuracy: $\pm$0.02%
- Input voltage: $\pm$15% of rated input
- Led indication: Relay status

Menu functionality:

All adjustments are made via the three front mounted buttons. Press the "MENU" button repeatedly until the desired setting is reached, press "SELECT" to display the current value of the selected setting, or sub menu (if applicable). The "+" and "-" buttons are used to change the value. "ENTER" will return the device to the menu. The "BACK" button will exit the menu.

12 Month guarantee:

Our product is guaranteed for a 12 (twelve) month period from date of purchase. This guarantee is valid for defects arising from failure during specified conditions. This guarantee does not cover damage due to abuse, tampering or improper installation. Our company does not accept liability for any consequential damage or loss arising from product malfunction. Should this product prove to be defective, kindly return for inspection or repair. For further information contact your nearest distributor.

For further information visit us at www.icon-electronics.com

Relay specifications:

Contact rating: 10A 250 VAC 2500VA (Resistive)
Mechanical life: 30 million operations
Electrical life: 250 000 operations (at maximum load)

Note: If the input voltage is below the minimum operating voltage, the relay may not energize. Even though the device's display is on.