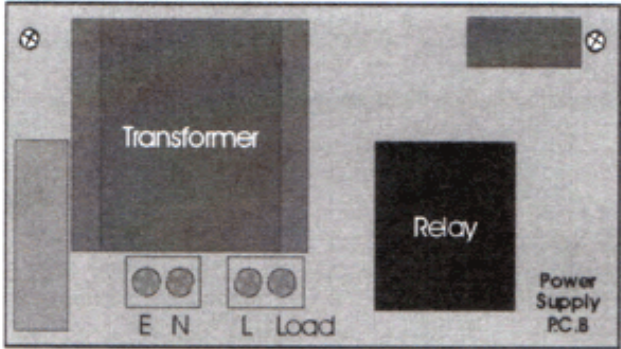



TIM30(ET30) Installation & Operating Sheet – Issue 2

This meter is a coin/token operated electronic timer for the control of leisure based electrical appliances, e.g. lighting.

THIS METER MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN



1) Unlock the front cover of the meter and lift upwards slightly and away from the wall bracket. Unplug the main p.c.b flying lead from the power supply PCB.



2) The meter should be mounted on a vertical flat surface. Mark position of mounting holes using the wall bracket as a template. Use a 7mm masonry drill bit with rawplugs and 3.8mm screws or a 3.5mm wood drill bit and 1.5mm screws depending on the surface on which the meter is to be fixed. Fit the top two screws to the wall leaving the head of the screw approximately 7mm from the surface. Hang the wall bracket on the wall and tighten the screws. Fix the bottom of the wall bracket to the wall using the two remaining screws.


3) Feed the mains & load cables through the back of the meter and connect to the terminal block.

4) The flying lead from the main PCB can now be connected to the power supply PCB. The front cover will now fit onto the wall bracket and drop down slightly where it can be locked into place.

IMPORTANT: THE INPUT MUST BE PROTECTED BY A FUSE RELEVANT TO THE LOAD

Note: There are no user serviceable parts inside this meter.
Please contact your supplier for service

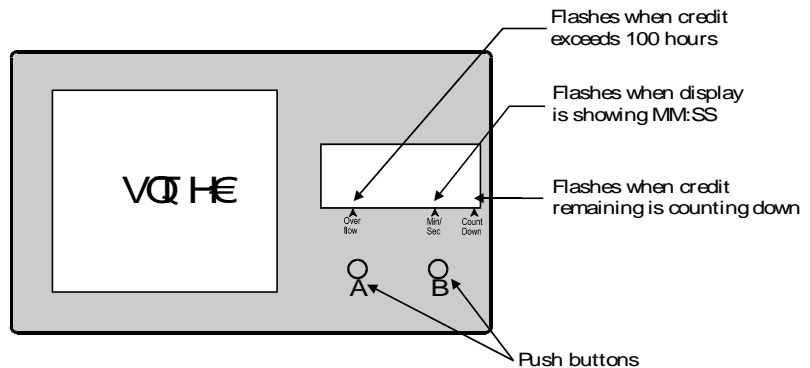
Please see rating label on meter for voltage & maximum load.



Manufactured in the U.K. to EN60730



Fit earth terminal as shown if required



Switch on power

On power up the meter will briefly show 'P.31.1' then the credit remaining on the meter.

To operate meter

Insert coin/token. The display will briefly show 'Coin'. The display will then show the remaining credit. If the credit is greater than one hour it will be displayed in hours & minutes, e.g.; 2 hours will be displayed as '02:00'. If the credit is less than one hour it will be displayed in minutes & seconds, e.g.; 40 minutes will be displayed as '40:00' and an indicator will flash on the display to show this.

Collector functions

Resettable Money (Token) Counter

When the coin box becomes full, the message 'COLL' (collect) is displayed.

Upon removal of the coin box the display will automatically show the resettable money counter. This will show how much money has been inserted into the meter since the last collection.

When the coin box is reinserted, the money counter will automatically zero before displaying the remaining credit.

Note: To prevent the money counter from zeroing, insert the coin box with 'B' pressed.

Service Mode

To access service mode remove the coin box, press and release switch 'B' until the display changes to 'St . 01'.

The service mode consists of 4 settings.

St.01 Credit Per Coin 1

Sets the amount of credit given by a 1 pound coin or token (except L1 token). Set in HH.MM or MM.SS

St.02 Credit Per Coin 2

Sets the amount of credit given by a 1€ 50c, 10p, 20p coin or L1 token. Set in HH.MM or MM.SS

St.03 Total Money

Displays the total amount of money/tokens inserted since the last factory reset (This is a read only display and cannot be changed)

St.04 Total Credit

Displays the total amount of credit given since the last factory reset. (This is a read only display and cannot be changed).

To View or Change Settings

Press and release 'B' to step to the desired setting number.

When the required number is showing on the display press and release 'A' to display the current setting. Press and release 'A' to select the digit to be changed then press and release 'B' to alter that digit.

To Clear Credit Remaining

Remove coin box. Display will show re-settable money counter.

Press and release switch B, display will show 'Clr'. Press 'A' & 'B' together and credit will be cleared.

Note: If already in service mode, the display must be returned to show 'Clr' before this feature can be used (Press and release 'B' until 'Clr' is shown).

Credit Save

When available, the credit save is activated by the customer by pressing switch 'B'. This will suspend the credit countdown and turn off the output to the load. The word 'HELD' will be displayed. To resume the countdown and reconnect the load, press switch 'A'.

Override Key Switch (optional)

When the override key is inserted and turned, the load will switch on and the word 'FrEE' will be displayed. This action will also clear any remaining credit from the meter.

ATTENTION

**THIS METER IS CAPABLE OF SWITCHING
A MAXIMUM LOAD OF 30 AMPS (resistive)**

Example:

7000 Watts at 230V AC

If in doubt please contact your
supplier before installing this meter.

THIS METER MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN

Error (Er.xx)	Description	TIM30 Error Messages
01	Opto 1 (£1) detected an object not conforming to the required parameters. ¹	
02	Opto 2 (20p) detected an object not conforming to the required parameters. ²	
03	IIC communication error talking to the non-volatile memory. ³	
04	Not used – Now replaced with ‘Sync’ message. See below. ⁴	
05	Opto 1 validated but meter is configured as a 10p or 20p only. ⁵	
06	Opto 2 validated but meter is configured as a £1 only. ⁶	
07	Opto 1 validated but St.01 is zero. ⁷	
08	Opto 2 validated but St.02 is zero. ⁸	
09	Not used	
10	Not used	
11	Not used	
12	Not used	

If any of the error messages 13 – 16 are encountered please contact the LCI technical department.

13	System Error – Mode routine entered with invalid ‘mode’ value.
14	System Error – Temp_mode routine entered with invalid ‘Temp_mode’ value.
15	System Error - ‘_Add_Mc’ entered with zero ‘Coin Value’.
16	System Error – IIC routines internal error.

SynC	Formerly Er.04 – Software re-synchronising with the 50Hz signal. ⁴
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Notes:

- 1** Opto 1 is the coin sensor used to validate £1 coins, L2 & L4 tokens. If the sensor detects that the coin is the wrong size it will show the error message.
- 2** Opto 2 is the coin sensor used to validate 20p, 10p, €1 & 50c coins or L1 tokens. If the sensor detects that the coin is the wrong size it will show the error message.
- 3** This is usually caused by a faulty component (IC4).
- 4** The meter has sensed that the mains supply has been switched off/on. This message is only normally displayed for a second as the meter is switched on or off. If the message is being displayed intermittently there may be a loose connection around the PSU PCB area of the meter.
- 5** Use CFG.1 – digit 1 to set the meter up for the correct coinage.
- 6** Use CFG.1 – digit 1 to set the meter up for the correct coinage.
- 7** Set a value in St.01.
- 8** Set a value in St.02