

Handbook for the ET60

Coin Operated Timer



| | |
|-------------------------------------|---|
| Introduction | 1 |
| Operational Features | 1 |
| Installation | 2 |
| Service Mode | 3 |
| Programming Credit | 3 |
| Audit Functions | 4 |
| Money Counter | 4 |
| Operating Instructions | 5 |
| Operating Meter | 5 |
| Error Messages | 5 |
| Specifications | 6 |

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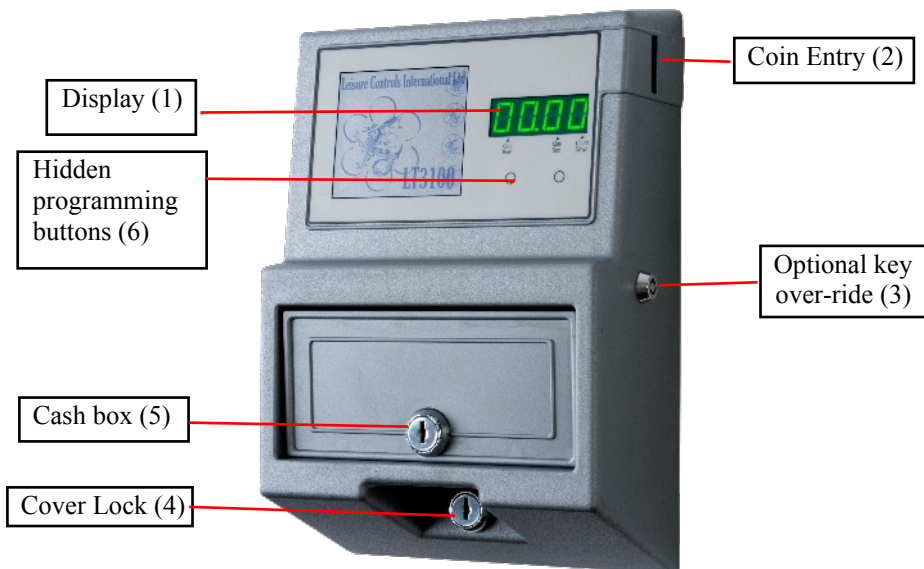
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Introduction

Operational Features

The ET60 meter is a 60 amp coin or token operated electronic timer. It provides secure, reliable and affordable timing metering solutions for switching up to 60 amps. Standard features include credit save facility, resettable and non-resettable coin counter, dual or single coin operation and the time period may be set in minutes and seconds or hours and minutes. An optional override key is available.



- (1) The 4 digit 7 segment display, in conjunction with the hidden programming buttons, is used to program the ET60, as well as showing time remaining and mode of operation (see Figure 4).
- (2) The coin entry accepts tokens or 10p, 20p, £1, €½, €1 coins.
- (3) The optional key over-ride switch turns the timer output on permanently.
- (4) Access for installation is via the cover lock.
- (5) Cash box holding 100 coins.
- (6) Hidden programming buttons (page 3).

Figure 1 Main Features

Installation

1) Unlock the front cover of the meter and lift upwards slightly and away from the wall bracket (see Figure 2). Unplug the cover flying lead from the wall bracket and remove front cover.

2) The ET60 should be mounted on a smooth vertical wall making sure access to the side coin entry is not obstructed. Take care to mount the case level in both the vertical and horizontal axes; failure to do so may prevent the coin mechanism from operating correctly. Mark positions of the mounting holes using the wall bracket as a template and drill suitable holes in the wall. For solid masonry use a 7 mm masonry drill bit and plug holes with wall plugs sufficient for 38 mm long screws. For wooden surfaces use a 3.5 mm drill bit and screws of a minimum length of 15 mm; longer screws are advised for very soft

surfaces. Fit the top two screws to the wall leaving the head of the screw approximately 7 mm from the surface. Hang the wall bracket on the wall, check that the bracket is level and tighten the screws. Fix the bottom of the wall bracket to the wall using the two remaining screws.

3) The timer will require a fused double pole switch for the mains input. Wire the unit as shown in Figure 3 using appropriately rated and approved cable conforming to the relevant regional standards. The meter can either be connected to the supply via a cable fed through the hole at the bottom left hand side of the wall bracket or through the back of the meter. Ensure the cables are secured underneath the cable clamps.

4) Plug the flying lead from the cover to the connector located in the wall bracket

and fit the front cover onto the wall bracket, drop down slightly and lock into place.

5) Apply power and the meter will briefly show 'Pxx.x' then any credit remaining where xx.x is the version number of the firmware and should be quoted if requesting technical assistance.

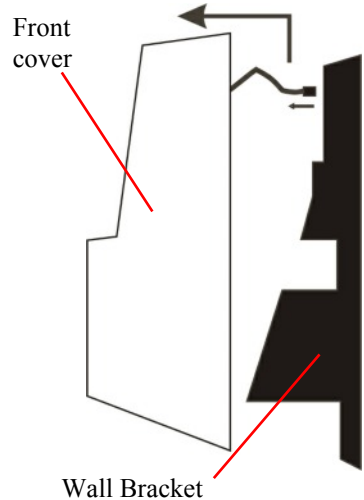


Figure 2 Removing Cover

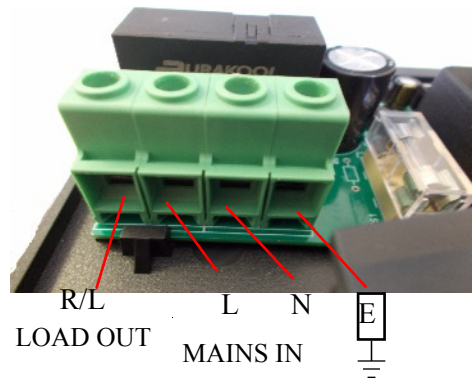


Figure 3 Wiring Diagram

IMPORTANT: PROTECT THE INPUT BY A FUSE RELEVANT TO THE LOAD

Service Mode

The service mode consists of nine settings split in to three functional areas:-

1. Programming credit
2. Option settings
3. Audit functions

To access service mode remove the coin box, press and release button B (Figure 4) to step to the desired setting number (St.01 to St.10). Simultaneously pressing and releasing both buttons A and B will step back to the previous setting. On reaching the required setting number press button A to enter desired values.

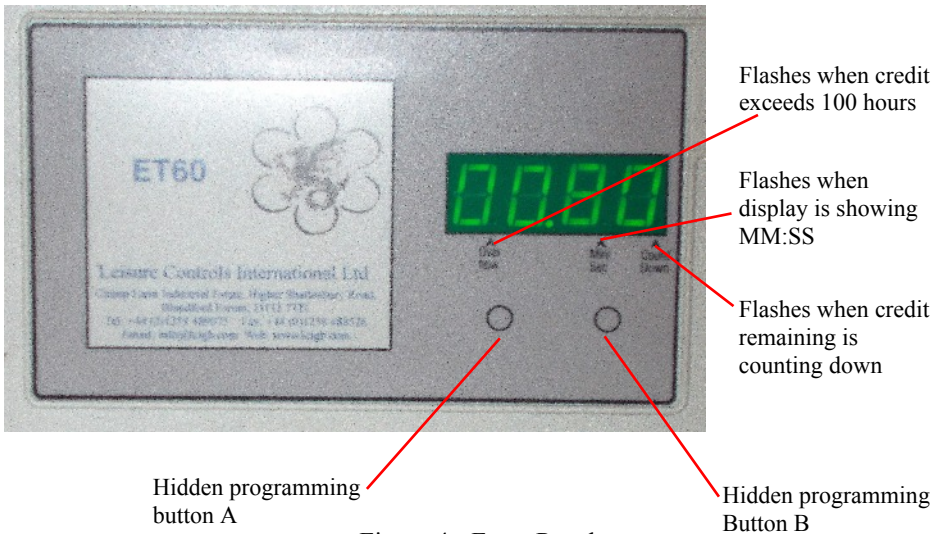


Figure 4 - Front Panel

Programming credit

The ET60 may be programmed for either single coin mode or totalise mode. Totalise mode must be configured by the distributor to be enabled. In totalise mode the meter will display the amount of money required and intermittently show 'FEE'. This value will be reduced as money is entered. Once the correct amount of money has been entered the session will begin.

To programme credit press and release button B to step to the desired setting number. When the required number is showing on the display press and release button A to display the existing setting. Press and release button A to select the digit to be changed then press and release button B to alter that digit.

4 ET60 Installation and Operating Instructions

NOTE

Coins and tokens are validated by two coin sensors. Coin sensor 1 validates £1 coins, L2 and L4 tokens. Coin sensor 2 validates €1, €½, 10p, 20p, L1 token.

St.01 Credit (Fixed Time) Per Coin 1

Sets the amount of credit given by coin sensor 1 (£1 coin, L2 or L4 tokens). Set in HH.MM or MM.SS.

St.02 Credit (Fixed Time) Per Coin 2

Sets the amount of credit given by coin sensor 2 (€1, €½, 10p, 20p coins or L1 token) Set in HH.MM or MM.SS.

St.09 Totalise Value

Sets the amount of money that is required before the session starts. If the value is exceeded, e.g. entering two £1 coins when the required amount is £1.80, the balance (20p in this example) will be held towards the next session. When the credit remaining reaches zero this balance is cleared.

St.10 Totalise Credit Value

Sets the amount of time to be given when the correct sum of money has been inserted.

NOTE

In totalise mode single coin mode is invalidated and settings St01 and St02 are unused.

Option settings

Three option settings are available in the ET60; Pre-start, Pre-end and Maximum Credit.

St.05 Pre-start Value

Pre-start runs prior to the session time allowing the customer time to prepare before the session starts. This allows customers time to change prior to using a shower or tanning bed. Entering the required time in setting St.05 enables this feature. The value is entered in minutes and seconds. Entering zero disables this feature. If the Fascia Start Button is configured, pressing the start button cancels the remainder of the Pre-start time and the session commences.

St.07 Pre-end Time

The Pre-end Period is used to give an audible warning before the timer reaches zero. For example, if the Pre-end time is set to two minutes when the credit remaining equals five minutes an audible warning is given two minutes before the session is due to end. Entering the required time in setting St.07 enables this feature. The value is entered in minutes and seconds. Entering zero disables this feature.

St.08 Maximum credit value

The 'Maximum Credit' feature prevents credit being accumulated above a pre-set time limit. Entering the required time limit in setting St.08 enables this feature. The value is entered in hours and minutes or minutes and seconds depending on configuration of the meter. Entering zero disables this feature.

Audit functions

Audit functions allow the operator to check the meter against cash receipts taken from the coin box.

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.

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 shows 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

To clear any Remaining Credit

To clear any remaining credit remove the coin box and the display will show the resettable money counter as described above. Press and release Button B and the display will show "Clr". Simultaneously press buttons A and B and any remaining credit will be cleared.

If the optional key over-ride is fitted then remaining credit may be cleared using the override function (page 5)

Operating Instructions

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 (Figure 4).

If the meter is fitted with the optional key override switch then inserting the key and turning clockwise will switch on the load, disable timing and display "FrEE". This action will also clear any remaining credit. To return to normal operation insert key and turn counter clockwise.

Error Messages

Thirteen error messages are displayed to help fault finding in the unlikely event of meter malfunction. Error messages are displayed in the format Er.xx

- Er.01 Opto 1 detected an object not conforming to the required parameters.
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.
- Er.02 Opto 2 detected an object not conforming to the required parameters.
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.
- Er.03 Not used
- Er.04 Not used
- Er.07 Opto 1 validated but St.01 is zero.
Set a value in St.01
- Er.08 Opto 2 validated but St.02 is zero.
Set a value in St.02
- Er.09 Not used
- Er.10 Not used
- Er.11 Not used
- Er.12 Not used

If the following error messages are encountered contact the LCI support desk.

- Er.05 Opto 1 validated but meter is configured as a 10p or 20p only.
- Er.06 Opto 2 validated but meter is configured as a £1 only.
- SynC Software re-synchronising with the mains frequency

Specifications

230V Models

| | |
|--------------------|---|
| Input | 230V 50Hz 7A |
| Switching capacity | 7kVA standard (30A resistive) |
| Power consumption | Less than 22W in standby, no output load active |

115V Models

| | |
|--------------------|---|
| Input | 115V 60Hz 7A |
| Switching capacity | 7kVA standard (30A resistive) |
| Power consumption | Less than 22W in standby, no output load active |

All Models

| | |
|-------------------------------|--|
| Fuses | Type T HBC 250V breaking capacity, 20x5mm 100mA |
| Colour | Grey |
| Time intervals (99.99 Max) | Programmable minutes & seconds or hours & minutes |
| Display | 0.6 inch high green LED |
| Dimensions | H: 270mm W: 183mm D: 93mm |
| Weight | 1.4kgm |
| Case | ABS |
| Lock | Radial 8 pin |
| Cash box capacity | 100 coins of 23mm diameter x 2.5mm thick |

Service Information

The ET60 meter has been designed to provide reliable long-term use for a variety of timing applications. No regular servicing is required, apart from emptying of the cash box.

Repairs

When reporting any fault with the timer it is useful to quote the serial number (located on underside of the timer) and the firmware issue numbers first displayed when the timer is turned ON. In most cases it is not necessary to remove the timer from the wall.

WARNING

Remove all sources of power from the timer before attempting any repairs.

Technical Support

Before contacting technical support, visit the FAQ section of Leisure Controls International's web site at www.lcigb.com/FAQ.aspx where many answers to questions may be found.

Alternatively contact technical support directly by one of the following:-

E-mail: support@lcigb.com; Telephone: +44 (0)1258 483574; Fax: +44 (0)1258 488526