User Manual for the JSGCT30

Coin Operated Timer

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Introduction

Operational Features

The JSGCT30 meter is a 30 amp coin or token operated electronic timer. It provides secure, reliable and affordable timing metering solutions for switching up to 30 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 JSGCT30, 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.

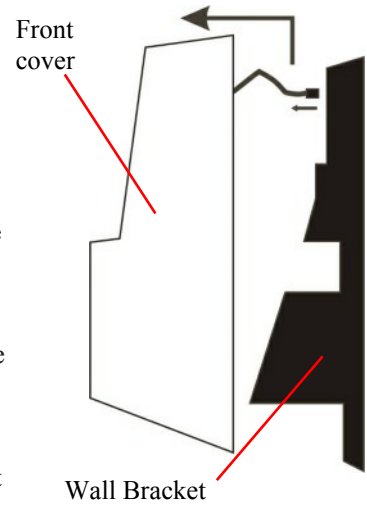

Figure 2 Removing Cover

2) The JSGCT30 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.

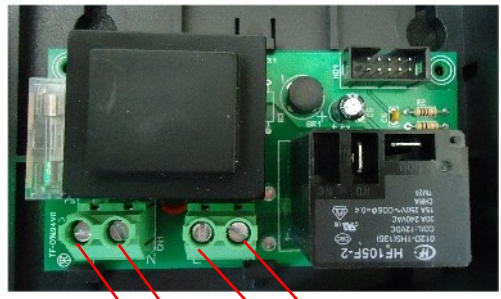

Figure 3 Wiring Diagram

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.

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

Service Mode

The service mode consists of four settings split in to two functional areas:-
1. Programming credit
2. 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.04). 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.

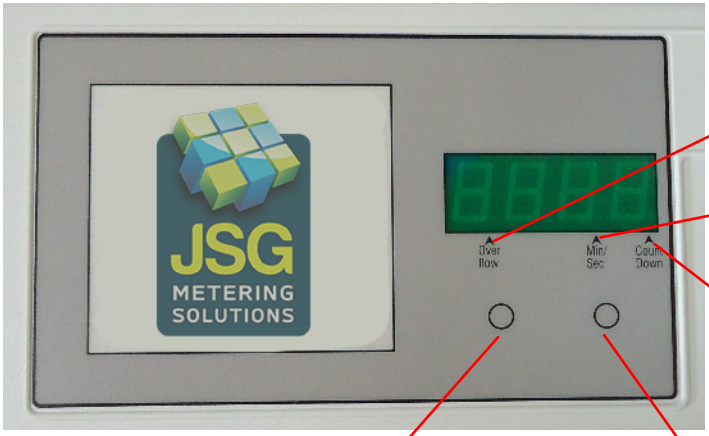

Figure 4 - Front Panel

Programming credit

The credit functions allow the meter to be programmed for a fixed time session.

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.

NOTE
Coins and tokens are validated by two coin sensors. Coin 1 sensor 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.

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.

Re-settable 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 re-settable 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 7kVA
Switching capacity	30A resistive, 7kVA reactive load
Power consumption	Less than 22W in standby, no output load active
115V Models	
Input	115V 60Hz 3.5kVA
Switching capacity	30A resistive, 3.5kVA reactive load
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 JSGCT30 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

E-mail: sale@jsgsolutions.com; Telephone: 01268 773766 Website: www.jsgsolutions.co.uk