

Advanced Metering Infrastructure  
**L+G Electronic Smart Ready Gasmeter**  
 G130 Installation Manual



## Revision history

Issue	Date	Comments
1	July 2012	First revision of G130 Installation and Commissioning Manual

Subject to change without notice.

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# 1 Introduction

This specification describes the procedure to install a Landis + Gyr E6V meter with G130 module fitted.

## 1.1 Scope

This guide applies to the G130 Smart Ready Gas meter, E6 residential gas meter.

## 1.2 Purpose

This manual contains information required to install and commission the G130 Smart meter.

## 1.3 Target Group

The contents of this user manual are intended for technically qualified personnel of energy supply companies responsible for system planning, installation and commissioning, operation, maintenance, decommissioning and disposal of the meter.

## 2 Safety

### 2.1 Safety Information

Attention is drawn as follows in the individual chapters of this user manual with classified word symbols and pictographs to the relevant danger level, i.e. the severity and probability of any danger:



#### Definition of danger

This symbol is used to indicate a possible dangerous situation which could result in severe physical injury or death.



#### Definition of warning

This symbol is used to indicate a possible dangerous situation which could result in minor physical injury or material damage.



#### Definition of Note

This symbol is used to indicate general details and other useful information.

### 2.2 Responsibilities

The owner of the meter is responsible that all people engaged on work with the meter:-

- have read and understood the relevant sections of this user manual.
- are sufficiently qualified
- strictly observe the safety regulations and the operating information in the individual chapters. In particular, the owner of the meter bears responsibility for the training of personnel.

### 2.3 Safety Regulations

The following safety regulations must be observed at all times:

- This equipment does not contain an Emergency Control Valve. Means for shutting off the supply must be provided as part of the building installation.
- Only suitably trained and qualified personnel shall be allowed to work on the equipment. Local safety standards shall be observed and shall take precedence over these regulations in points of conflict.
- The meter must be held securely during installation. They can cause injuries if dropped.
- Any meter that has fallen must not be installed, even if no damage is apparent, but must be returned for testing to the service and repair department responsible (or the manufacturer).
- The meter must on no account be cleaned with running water or with high-pressure devices. Water penetration can cause short-circuits.

## 3 Installation Procedure

The G130 meter measures the volume of gas passed through it and is certified for use up to 6 m<sup>3</sup>/hr.

The meter is intended for a closed environment with the meter in a suitable cabinet and is intended for use in a mechanical environment M1 and an electromagnetic environment E1.

The meter is intended for installation in a residential environment by suitably qualified personnel.

### 3.1 General

Installation of the gas meter shall be in accordance with the requirements of The Gas Safety (Installation and Use) Regulations 1998 and only by suitably qualified personnel.

The procedure includes fitting the gas meter to the pipe bosses, opening the valve for operation (if necessary), ensuring the system is leaktight and purging the pipes of air.

Access to the installation and commissioning function is achieved through the Service Menu (see section 4)

The G130 Smart Gas meter requires no maintenance by the end user. The external surfaces may be cleaned, if required, using a damp or anti-static cloth.

### 3.2 The safe removal of the existing meter.

1. Isolate the gas supply via the Emergency control valve or other locally defined methodology.
2. Record any necessary details, such as outgoing meter serial number and the outgoing meter volume index.
3. Store outgoing meter for return to stores or disposal, as required.

### 3.3 The safe connection of the G130 Smart gas meter

1. Connect the gas meter to the gas installation having first ensured that the connection seals are in a suitable condition.
2. Confirm the installation is leak tight via the locally approved methodology.
3. Ensure that the air within the installation / new meter is safely purged. If the G130 Smart Ready gas meter is supplied with the valve closed the open valve procedure should be used to open the valve to enable the flow of gas.

### 3.4 G130 Meter displays

The G130 display is normally blank. Pressing either of the two buttons on the front panel will wake the meter.

The default display is the Meter Index.

Press button A again to display the valve status screen. The two options are shown below.

If the valve is open the screen will display ON.

If the valve is closed the screen will display OFF and the option to open the valve will be shown (Press B for Gas). To open the valve the instructions in section 6 should be followed.



G130 Valve Status displays

### 3.5 Display cycle

The full display cycle is shown in the diagram below.

Press A or B to wake the display.

The index display is then shown.

Pressing button A will then show the valve status display.

Another press of button A or a timeout will return to the default display.

Holding button A whilst in the default display will enter the Rolling Register display sequence.

The number of rolling registers shown and their sequence is defined at the time of manufacture.

## 4 The Service Menu

### 4.1 The Service Menu sequence

The sequence of menu items in the Service Menu is as follows:-

- Open Valve
- Clear Event Logs
- Software Version
- Divorce Module
- Battery Change
- Display Test
- Last Valid Index

### 4.2 Accessing the Service Menu

The Service Menu is accessed from the index display by pressing button A to move to the valve status display and then holding button B for more than 5 seconds. The G130 meter then shows the Engineer Access screen:-



Pressing button A will then show the Pin code Access Screen.



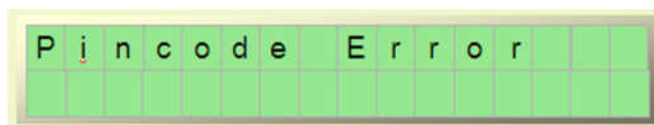
The PIN code is 6 characters which are determined at the time of manufacture.

The PIN code is displayed with all characters represented as \* with a cursor under the first one. The characters are entered pressing button A until the desired character is shown in that position. Pressing button B will move to the next character on the right. It is possible to roll around back to the beginning if necessary to correct errors.

Holding button B for more than 3 seconds causes the meter to check the PIN code against the entered one. If the PIN code is correct, access to the menus is granted.

If the PIN code is incorrect, an error message is displayed, followed by the default display.

If more than 4 successive incorrect PIN codes are entered, the menu entry dialog will be locked out for a period of one hour and a fraud event recorded in the Event Log.

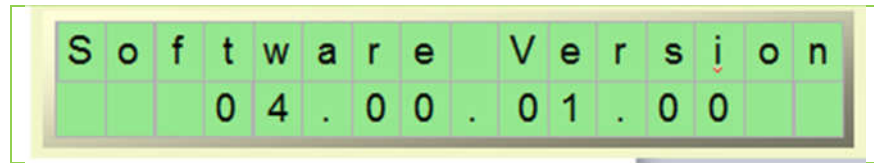


Once the Service Menu has been selected, the first menu option is displayed. The option is selected by pressing button A, the next option is displayed by pressing button B. The default display will be shown after the last menu option or when the option has been displayed for a period of time without a button being selected.

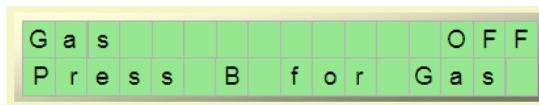


## 5 Rolling Register Displays

The G130 has a single rolling register which displays the module firmware version:-

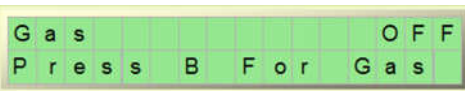
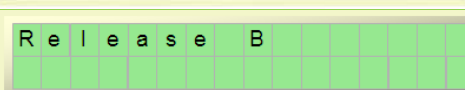
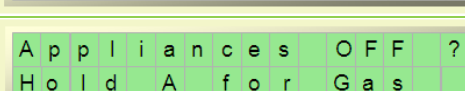
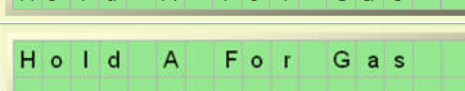
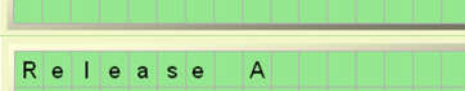
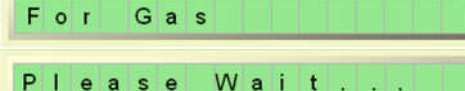
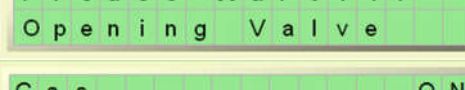


## 6 Opening the Valve for operation



Gas OFF  
Press B for Gas

If “Press B for gas” is being displayed on the lower half of the LCD it is possible to initiate a valve open process as follows.

Press button B	
Release button B	
Confirm Appliances are off by pressing button A	
Hold button A until display changes to next	
Release button A	
Wait for valve to open (~30 seconds)	
Default display – Valve Open	
If the High Flow Open Interlock option is active and causes the valve to reclose then the “Press B for Gas” display will become available again.	
Repeat	