The G6 data collection & pay-as-you-go unit

An evolution in data collection

The G6 is the innovative pay-as-you-go (PAYG) unit from community heating, metering, billing and PAYG experts, Switch2. With over 33,000 PAYG units currently in the market place, including 25,000 G6 units, you can trust us to deliver for you and your residents.

The G6 unit is designed to create a simple, flexible and functional prepayment system that eliminates customer misconceptions over prepayment being expensive, outdated and inconvenient.

Benefits to the landlord:

- Removes the need for a point of sale outlet
- Reduces scheme operating costs
- Removes scheme operator debt risk
- Offers flexible payment options

More than just a prepayment unit, G6 is capable of:

- Offering credit billing, which can be converted to prepayment if the need arises to manage debt
- Supporting a mixture of credit and prepayment billing within one development
- Providing flexible top-up facilities
- Allows for 'friendly disconnect', meaning that it will not disconnect at preconfigured times such as evenings or weekends when top-up may be difficult
- Full support from a comprehensive remote management system
- Collects daily standing charges if required
- Benefits from visual and audible notifications
- Allows extensive data transparency to both the client and end-user
- Acts as a data collector and user interface
- Built in-home display within the G6 unit
- Open access for third party operation

Approvals

The G6 unit has full CE approvals

Technical specification

External dimensions	
Width:	160mm
Height:	235mm
Depth:	75mm
Radio interfaces	GPRS/ GSM
Meter connections	Up to 4 MBUS meters.
Pulsed meters also supported	
2 switched live outputs	1 motorised valve or equivalent via 230V switched live output (1 spare)
Power	230 Volts AC
Operating temperature	5–45°C
Storage temperature	0–60°C
Power consumption	230 Volts AC
Preferred heat meter	T230, T550, Kamstrup 402, Hydrometer

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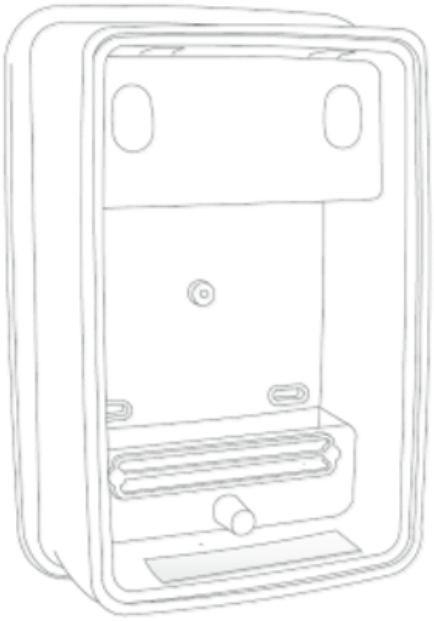
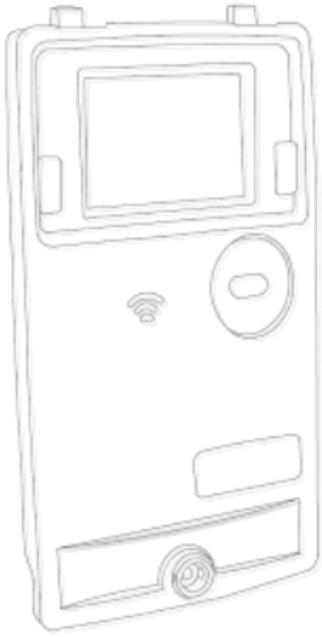
Components

Back plate: Provides a secure mounting point and terminal connection point for all input and outputs. This is only made safe when the safety cover is then mounted on the back plate. The back plate should under no circumstances be installed inless a safety cover has been supplied with or is available for immediate installation once the back plate has been connected to the wiring infrastructure.

The back plate has two possible entries for the wiring connections, either back or bottom entry. Dependent on the method of entry for the wiring, a trunking cover supplied with the unit may be required to be installed to ensure the safety and integrity of the unit.

Safety cover: Is a mandatory installation part designed to protect the systems connections from interference. The safety cover is supplied with a securing screw held within the front of the cover which is to be used to secure the cover to the unit. The safety cover when used within the resident interface module must be mounted in the safe orientation with the terminal connection not visible.





Features

The G6 unit is a next generation control and measuring unit for meters within residential and industrial properties. This unit has been designed with two operating modes; Data collection and prepayment. The G6 unit consists of three parts, a back plate, a safety cover and the resident interface module. Via MBUS and pulsed input the G6 unit will record and, if configured, transmit collected data via GPRS/GSM to Switch2 for the purpose of monitoring and reporting. Other inputs include an optical port, a Mifare reader, and a two button user interface which is located on the front of the unit.

Important features of the G6 unit:

- A large LCD screen
- A two button simple user interface
- 4 MBUS inputs
- 2 pulsed meter inputs
- GPRS/GSM data connectivity (if configured)
- Mifare interface
- Install and safely secure the unit prior to commissioning by Switch2
- Optical interface
- In-home display

Resident interface module: Contains the main circuit board and electronic components of the completed G6 unit. The residents interface module can only be installed and commissioned by a Switch2 Engineer. All the G6 unit functionality is dependent on the installation and programming of the resident interface module. This module cannot be installed or used unless mounted securely to the back plate and safety cover. The residents interface module includes a backlit menu-driven LCD screen to review the operation mode, parameters and current status of the unit. This is controlled via the two buttons located either side of the screen.

Installation

The G6 is installed in two stages. The first stage is installed by the onsite contractor/developer:

1) The meter and controls are installed within the property

2) The back plate is fastened to the wall

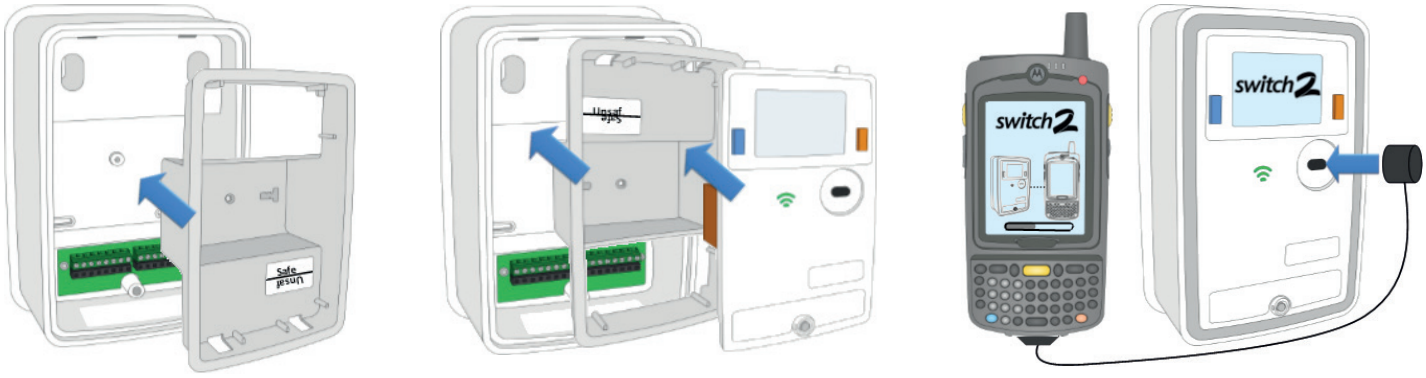
3) The wiring is connected to the back plate

4) The safety cover is installed covering the wiring connections ensuring the cover is in the safe orientation and secure using the centre screw. The installation can now be left safe and ready for a Switch2 engineer to visit and install the residents interface module and commission the G6.

5) The Switch2 engineer removes the centre screw, rotates the safety cover round so the terminals are now visible, and securely fasten this back in place using the same screw.

6) Then they insert the resident interface module, securely seal the unit and turn on the power.

7) The G6 is then commissioned (programmed) by the handheld using the optical head and is ready for use by the resident.



Wiring

The G6 has 16 connection terminals which are located on the back plate. These connections are split into two sections, high voltage on the left and low voltage on the right. Each wiring connection is made into the green connector blocks located on the circuit board. The pins on the G6 residents interface module then connect with the circuit board via the black in connections below the green connector blocks.

INPUT - (1,2,3) the mains power into the G6 230V AC 6 amp connection.

OUTPUT - (4,5,6) a continuous 230V mains out connection from the G6.

OUTPUT - (7,8) two controlled switched live outputs from the G6. One (7) is used for motorised valves / control methods of the controlled supply's. The second (8) is currently a spare and unused.

MBUS - (9,10) for connection to the MBUS wiring loop where the meters for that property are connected.

PULSE - (11,12,13) the connections for pulse meters to the G6

SPARE - (14,15,16) these are currently unused.