



## 1 Technical information

- 1a METAL consumer unit must be installed by a qualified electrician in accordance with the current IET Wiring Regulations BS 7671
- 1b Total load must not exceed the rating of the incoming isolator or any additional limitation.
- 1c The total sum of the individual MCBs may exceed this value where there is appropriate diversity in the installation.
- 1d The Consumer Unit and associated components have been manufactured to the following specifications:

**Standards (TABLE 1)**

Device	Standard
Consumer Unit	EN 61439-3
Main Switch	IEC EN 60947-3
RCD	IEC EN 61008-1
MCB	IEC EN 60898-1
RCBO	IEC EN 61009-1
IP RATING	IP2XC

**Torque Settings (TABLE 2)**

Device	Max Cable Capacity	Recommended Torque
RCD	35mm <sup>2</sup>	2.5Nm
MCB	16mm <sup>2</sup>	2.5Nm
Earth Neutral Terminals	16mm <sup>2</sup>	2.0Nm

- 1e Ambient Temperature: MCBs are calibrated at 30°C according to the calibration temperature requirements of EN60898. At other temperatures the following rating factors should be used: *At 60°C 0.85 At 20°C 1.0 At 0°C 1.15*
- 1f **Adjacent thermal-magnetic MCBs should not be continuously loaded at their nominal rated currents when mounted in enclosures.** We recommend a 60% de-rating factor is applied to the MCBs nominal rated current where it is intended to load the MCBs continuously

## 2 Enclosure Mounting

- 2a Remove front cover.
- 2b Remove **minimum** appropriate **knockouts with a punch, in order to maintain the IP rating and fire containment of the enclosure we recommend glands are used.**
- 2c Fix base to wall using screws and rawl plugs as appropriate **and remove any debris from inside the consumer unit.**
- 2d Adjust to the square.
- 2e Route incoming cables to desired positions.

## 3 Connection of Tails

- 3a Cut and dress the main incoming cables and earth conductor.
- 3b Connect into the appropriate terminals **L (1) & N (3)** on RCD, earth terminal bar and torque (TABLE 2).

## 4 Connections

- 4a Cut, dress and connect circuit conductors to appropriate MCB neutral and earth terminals.
- 4b **ALL CONNECTIONS (including factory made connections) MUST BE TORQUED (TABLE 2).**
- 4c **Make sure that each earth and neutral outgoing circuit is correctly made to the corresponding numbered terminals as this will ensure final testing and fault finding is easier.**

## 5 Circuit Identification

- 5a All circuits must be clearly labelled on the front cover.

## 6 Enclosure Earthing

- 6a An earth cable is supplied in the accessory pack which must be fitted between the front cover and the earth terminal bar for earth continuity.

## 7 Operation of the TEST button on RCD

- 7a When newly fitted systems do not trip on the TEST button of the RCD or using the RCD tester the problem is normally caused by an earth to neutral fault on the circuit (PME supply).

## 8 Testing

- 8a After completion of the installation, it must be tested in accordance with the latest edition of the IET Wiring Regulations for Electrical Installations (BS 7671).

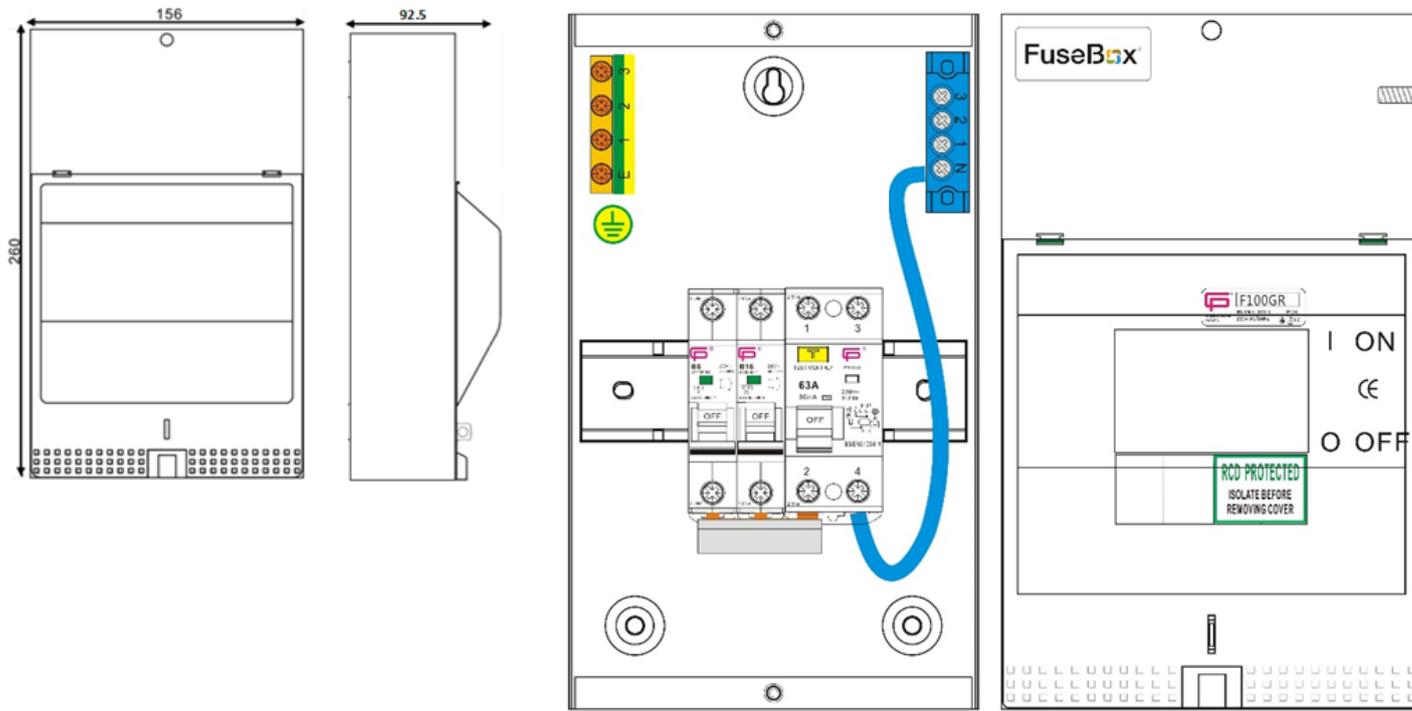
**Before fitting the front cover, check all connections including factory made connections are TORQUED. Loose connections can cause fires!!!!**

# GARAGE UNIT F100GRA (TYPE A RCD)

Instruction Leaflet DOC: F100GR2021



## 9 Dimensions



## Environment

WASTE ELECTRICAL PRODUCTS SHOULD NOT BE DISPOSED OF IN HOUSEHOLD WASTE. CONTACT YOUR RETAILER OR LOCAL AUTHORITY FOR RECYCLING INFORMATION



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After installation and testing of this product it is essential that the INSTRUCTION LEAFLET is available for reference