

Please retain the instruction manual



Consumer Unit User's Guide

Please read the operation instruction manual
before installing and using the products

1 General Information

1.1 This unit must be installed by a qualified electrician in accordance with the requirements of all relevant legislation, regulations and the accepted practice in the industry.

1.2 After the installation and testing of this product it is essential that the user guide is drawn to the attention of the person responsible for its operation and is at all times available for ready reference.

1.3 The total current supplied by the unit must not exceed the rating of the incoming main switch or RCCBs or any additional limitation (as shown on the way label).

1.4 The total sum of the individual MCBs ratings may exceed this value where there is appropriate diversity on the installation.

1.5 This product is suitable for indoor use only and is rated at IP2X.

1.6 The consumer unit and associated components have been type tested to the following specifications:

- Consumer Unit — BS EN 61439-3
- MCB — BS EN 60898-1
- RCCB — BS EN 61008-1
- RCBO — BS EN 61009-1
- Main Switch — BS EN 60947-3

1.7 Ambient Temperature: The range of MCBs are calibrated to meet the 30°C according to the Calibration Temperature requirements of BSEN 60898.

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

1.8 Adjacent thermal-magnetic MCBs should not be continuously loaded or approaching their nominal rated currents when mounted in enclosures. Therefore we recommend a 60% diversity factor is applied to the MCBs nominal rated current where it is intended to load the MCBs continuously.

1.9 Before fitting the front cover, check the tightness of all connections, including factory made connections:

Devices	Recommended Torque (Nm)	Cable Capacity (mm ²)
Main Switch/Incomer	2.5	35
RCDs/RCCBs	2.5	25
MCBs	2.0	16
1 Module RCBOs	2.0 (IN) 1.2 (OUT)	16
2 Module RCBOs	2.0 (IN/OUT)	16
Earth/Neutral Terminal Bars	2.5	25
SPD Devices	1.2 (L/N) 2.0 (PE)	2.5 (L/N) 16 (PE)

1.10 Make sure to replace the busbar insulation shield and fit the front cover to complete the installation.

2 Enclosure Mounting

- 2.1 Remove appropriate cut-outs using a sharp knife.
- 2.2 Fix base to wall using screws and rawplugs as appropriate.

- 2.3 Bring cables through appropriate apertures.
- 2.4 Route main incoming cables to desired position
- 3 Connection of Main Incoming Device
- 3.1 Cut and dress the main incoming cables and earth conductor. Fit them into the appropriate terminals (Fig.1 and Fig.2)
- 3.2 Tighten the main incoming terminals securely. The recommended torque figure is 2.5Nm.

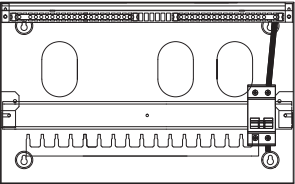


Fig 1

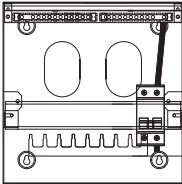


Fig 2

- 4 Installation of MCBs
- 4.1 Slide MCBs on to busbar. (Fig.3)

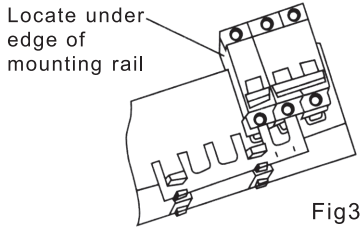


Fig3

- 4.2 Ensure MCBs engages onto the mounting rail.
- 4.3 Tighten terminal screw. (See recommended tightening torques.)
- 4.4 It is recommended that the highest rated MCBs is fitted nearest to the main incoming device.
- 5 Circuit Connections of MCBs and RCD
- 5.1 Cut, dress and connect circuit conductors to appropriate MCBs, RCD, neutral and earth terminals. (Fig. 4 and Fig.5)
- 5.2 Make sure that each earth and neutral outgoing circuit is correctly made to its corresponding numbered terminals. (Fig.4 and Fig.5)

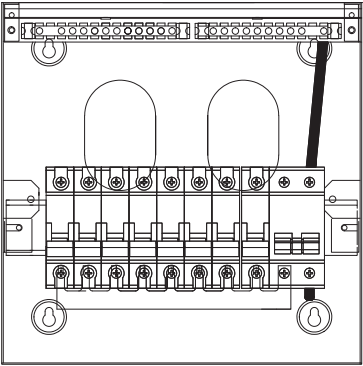


Fig4

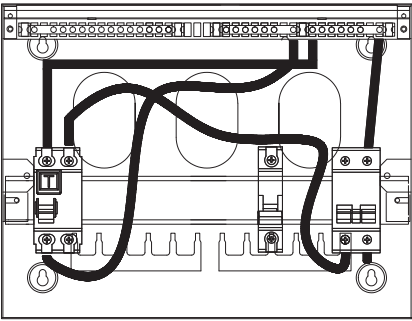


Fig5

6 Blanking of Unused Ways

Blanking plates should be fitted to cover any spare modular ways. Blanking plates are enclosed.

7 Installation of Control Devices

Control devices such as timers, transformers and contactors can only be fitted to the consumer units supplied with an accessory rail. The incoming supply for the device must be fed from MCBs (not directly from the busbar).

8 Circuit Identification

- 8.1 The consumer unit way label fixed on the front cover of the consumer unit.
- 8.2 Pre-printed identification labels are provided and should be fixed in position on the way label

according to the outgoing circuit.

9 Testing of the Installation

9.1 After completion of the installation, it is essential that it is tested in accordance with the latest edition of the IEE Wiring Regulations for Electrical Installations (BS 7671).

9.2 It is important that the following are included in the above:

- Operation of the test button of any RCDs fitted.
- Verification that the earth loop impedance requirements are satisfactory.



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