TECHNICAL INFORMATION

Rated voltage:	220 - 240V AC ~ 50Hz
Max Current:	100A
Conforms To:	*Consumer Units - BS EN61439-3* *MCB's - BS EN60898-1* *RCCB's - BS EN61008-1* *RCBO's - BS EN61009-1* *Main Switch - BS EN60947-3*

Note: When disposing of this item and its packaging please follow local regulations and use an appropriate waste disposal centre. Please see the GreenBrook website for further details.

GUARANTEE

Your PowerBreaker Consumer Unit is guaranteed for 3 years from the date of purchase.

NOTE: To validate the 3 year warranty on your consumer unit please visit www.greenbrook.co.uk to register.

This is in addition to your statutory rights.

Please keep these instructions for future reference.

INSTALLER - Please pass instruction manual onto the owner of the unit.

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–PowerBreaker–

Installation & Operating Instructions For PowerBreaker Consumer Units

The PowerBreaker Consumer Unit range consists of 8, 10, 12, 14,16,18, 20 & 22 Way boards, from Part populated to Dual High Integrity boards. With rear and side cable entry.

IMPORTANT

This product should be installed by a competent person and in accordance with the current IET Wiring Regulations (BS7671). If in doubt, consult a qualified electrician.

SAFETY INFORMATION

- The total current supplied by the consumer unit must *NOT* exceed the rating of the Main Switch or the incoming supply.
- This consumer unit is suitable for use indoors only and is rated at IP20
- Only PowerBreaker modules (MCB's, RCCB's, RCBO's, SPD's etc.) should be installed into these consumer units.
- All unused out-going ways *MUST* have a blank module fitted.
- Before fitting the front cover, check that *ALL* terminations are to the correct torque, including factory made connections.
- The Consumer unit and modules have been type tested to the following specifications:-

  Consumer Units - BS EN61439-3
  MCB's - BS EN60898-1
  RCCB's - BS EN61008-1
  RCBO's - BS EN61009-1
  Main Switch - BS EN60947-1
- Ensure all busbar insulation shields are fitted.
- Ambient temperature:-
  PBM range of the MCB'S are calibrated to meet the 30°C calibration temperature requirements of BS 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

- Adjacent thermal-magnetic MCB's should not be continuously loaded at or approaching their nominal rating when mounted in enclosures. If MCB's are to be continuously loaded, it is recommended that a factor of 0.6 is applied to its nominal rating.

INSTALLATION

1. Remove the front cover by unscrewing the two screws.
2. Remove knockouts to facilitate cable entry as required (side & rear entry knockouts), and insert grommets.
3. Using the built-in sprit level, mount the enclosure base on to the flat wall, using wall plugs and screws as appropriate.
4. Feed circuit cables through the knockouts as required.
5. Route the meter tails into the enclosure to terminate in the Main Switch.
6. Populate the Consumer Unit with the MCB's as required, The highest rating MCB should be positioned closest to the Main Switch or RCCB that feeds them.
7. Fit the Busbar in to either the Main Switch or RCCB and MCB's. The Busbar may need to be cut & shortened to suit the required number of outgoing ways on the isolator and the RCCB's. Fit the Busbar insulation shield.
8. Cut, dress and terminate the circuit cables, making sure the Neutral and Earth conductors are terminated in the corresponding circuit number terminals. Earth conductors should be appropriately sleeved.
9. Fit the blanking modules to cover any spare modular ways.
10. Attach the circuit identification labels (label kit supplied).
11. Test the Installation: In accordance with the latest edition of the IET Wiring Regulations (BS 7671). It is important that the RCCB operation times and TEST button are tested, as well as verification that the Earth loop impedance requirements are met.

Before fitting the front cover, check the tightness of ALL connections, including factory made connections.

Device	*Recommended Minimum Tightening Torque*
Main Switch/RCCB's	2.5Nm
MCB's	2.0Nm
RCBO's	2.0Nm
Earth & Neutral Terminals	2.5Nm

TEST PROCEDURE

Test Procedure - RCCB & RCBO

- The RCCB and RCBO (if fitted) MUST be tested regularly as per BS7671 Regulations.
  To TEST - Press the Test Button (T) and the switch should flip to the OFF position.
- To reset - PUSH the switch to the ON position.

Resetting the Devices (Trip Switches)

- The 'Trip Switches' will operate if a fault has occurred. To reset, PUSH the switch into the ON position.
- If the fault is still present, the switch will not stay in the ON position. If this happens, contact a competent person or qualified electrician to inspect the installation.

–PowerBreaker– *Modules Range*

Mains Switch - 100A, Double Pole	
Part No	**Rating**
PBI	100A
RCCB's - 6kA, 30mA, Type A, Double Pole	
PBR80A	80A
PBR100A	100A
MCB's - 6kA, Type B, Single Pole	
PBM06B	6A
PBM10B	10A
PBM16B	16A
PBM20B	20A
PBM32B	32A
PBM40B	40A
PBM50B	50A
PBM63B	63A
RCBO's - 6kA, Type A, Single Pole	
PBO6A	6A
PBO10A	10A
PBO16A	16A
PBO20A	20A
PBO32A	32A
PBO40A	40A