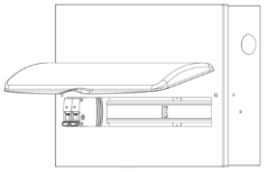
TX1XXX Series	Main Switch only Surface Mounting Consumer Units
TX1XXXEV Series	EV Consumer Units
TX1910	Garage Consumer Unit
TX1911	Shower Consumer Unit
TX1921HP	Air Source Heat Pump Consumer Unit

Description

Main Switch only Consumer Units that can have SPDs easily fitted in the enclosure. All outgoing ways on the Main Switch only consumer units are controlled by the 100A Main switch.

The metal enclosures have rear cable entry and 32mm knockouts on side walls. The top and bottom walls have 20mm, 25mm and 32mm knockouts.



Safety Instructions

- All products must be installed by a competent/qualified person in accordance with relevant regulations and legislation, including the current Building Regulations and BS 7671, the IET Wiring Regulations.
- 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 and is rated at IP2X
- Only Timeguard devices (RCBOs RCDs, AFDDs etc.) should be installed in Timeguard Consumer Units.
- All unused out-going ways must have a blank fitted.
- Before fitting the front cover, check that all terminations are tight to the correct torque, including factory made connections.
- Ensure all busbar shields are fitted.
- Ambient temperature
  - The Timeguard range of the thermal-magnetic devices are calibrated to meet the 30°C calibration temperature requirements of BS EN 60898.
  - At other temperatures the following rating factors should be used:
    40°C 0.85 20°C 1.00 0°C 1.15
- Thermal-magnetic devices that are adjacent to each other should not be continuously loaded at or approaching their nominal rating when mounted in enclosures. If devices 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.
2. Remove knockouts to facilitate cable entry as required, and insert grommets.
3. Mount the enclosure base using wall plugs and screws as appropriate, ensuring it is fixed.
4. Feed circuit cables through the knockouts as required.
5. Route the meter tails into the enclosure to terminate in the Main Switch, using a suitable gland as necessary. BEAMA recommendations should be followed, including flattening the cable end, use of a meter tail clamp and 19 strand 25mm2 cable.
6. For Main Switch only consumer unit
   - ❖ Populate the enclosure with the RCBO/AFDDs as required. The highest rating RCBOs should be closest to the Main Switch.
7. Fit the blanks to the DIN rail in the spare RCBO/AFDD spaces.
8. Fit the live busbar in to either the Main Switch or RCDs. The busbar may need cutting and shortening to less RCBO/AFDDs than it is made for. Fit the live busbar shield.
9. 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.
10. Test the installation in accordance with the latest edition of the IET Wiring Regulations (BS 7671). It is important that the RCD/RCBO operation times and test button are tested, as well as verification that the earth loop impedance requires are met.
11. Fit the front cover and attach the circuit identification labels.

Check the tightness of all terminals, including factory made terminations, as follows:

Device	Max. Cable Capacity		Recommended Tightening Torque	
	Top	Bottom	Top	Bottom
Main Switch	25mm²		3.0 Nm	
RCD	25mm²		2.5 Nm	
RCBO	10mm²	25mm²	1.2 Nm	2.5 Nm
AFDD	10mm²	25mm²	1.2 Nm	2.5 Nm
SPD	10mm²	25mm²	1.2 Nm	2.0 Nm
Earth & Neutral Bars	20mm²		2.5 Nm	

Front Lid Locking Bracket

It is possible to lock the lid closed to prevent circuits being switched on whilst other trades are working within the plot.

- To do this, a locking bracket needs fitting between the front cover and the hinged lid (figure 1).
- Insert a padlock into the locking bracket slot and lock it.
- Once the installation is completed, the locking bracket should be removed and the blanking cap should be fitted (figure 2).

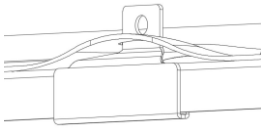


Figure 1

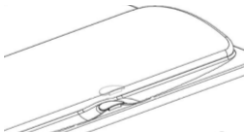


Figure 2

User Information

RCD / RCBO Testing

- The RCD and RCBO (where fitted) should be tested regularly. To test, press the Test button 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 to the on position.
- If the fault is still present, the switch will not stay in the on position. If this happens, a competent person or electrician will need to inspect the installation.

Product Specification

Voltage	220 – 240V 50Hz	Compliance	Enclosure: BS EN 61439-3	RCBO: BS EN 61009-1
Current	100A max.		Main Switch: BS EN 60947-3	SPD: 61643-11
Main Switch	AC-22A		RCD Type A : BS EN 61008-1, Type B&F: BS EN 62423	
Air Source Heat Pump RCD Rating	40 or 63A 30mA Type B HP		AFDD-RCBO: BS EN 61009-1, BS EN 62606	

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