

## MEMSHIELD 4 INSTALLATION INSTRUCTIONS FOR INCOMING AND OUTGOING METERING - 400A to 800A Instruction leaflet LT1224 (01/19)

#### **IMPORTANT NOTES**

- 1. This product should be installed, commissioned and maintained by or under the supervision of a competent electrician in accordance with current electrical engineering Codes of Practice, Requirements for the Electrical Installations (IET Wiring Regulations BS7671), Construction (Design and Management) Regulations, HSG150 Health and Safety in Construction, Statutory requirements and any Specific instruction issued by the Company.
- 2. After completing the installation and testing of this product it is essential that this leaflet is drawn to the attention of the person responsible for its future operation and maintenance, and is at all times available for ready reference.
- 3. These notes assume throughout that the product is disconnected from the supply. It is essential that this is done before any work is carried out.
- These Panelboards are only designed for use with Eaton MCCBs. Failure to comply will result in invalid warranty and certification.

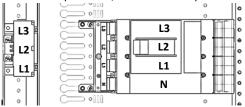
#### **METER SETTINGS**

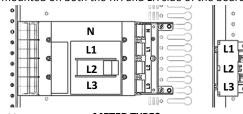
**Basic Meter Setup:**- For detailed meter settings see Meter Operating Instructions.

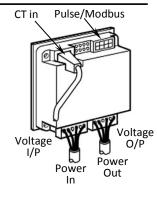
Press: "E " for 3 seconds to toggle from Auto to Manual mode. (Stops screen scrolling).

**IMPORTANT-** Do **NOT** perform 'Left Hand CT Mounting Phase Correction' in Meter Operating Instructions.

The meter phases L1, L2 & L3 are setup for the CT to be mounted on both the RH and LH side of the board.







**Meter/CT Ratio Setup** - The meter default CT setting is 160A. To change the meter CT setting follow instructions below.

- 1. Press ▲+▼ keys together for 3 seconds to enter configuration menu.
- 2. To enter default password 1000 Press ► then press ▲. Press 4 ← times to move on and to enter CT primary page 04.
- 3. Press ►to select the digit to change and press ▲or ▼ to raise or lower the CT value. Set to 250, 400, or 800 to match CT.
- 5. Press ▲+▼ keys together for 3 seconds to exit configuration menu.

#### **METER TYPES**

EPBMETER1 – Modbus/Pulse. EMC3PP2P1 – Multi function MID with Modbus/Pulse.

#### Note:

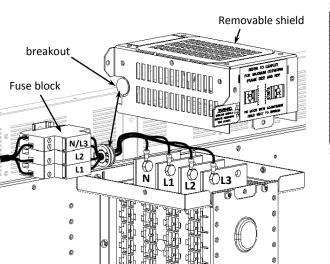
- 1. Ensure wire seal is fitted to MID Meter.
- 2. MID Meter will time out and <u>lock</u>, when setting CT ratio, if meter setup instruction are not followed.

# RJ45 CT Connection

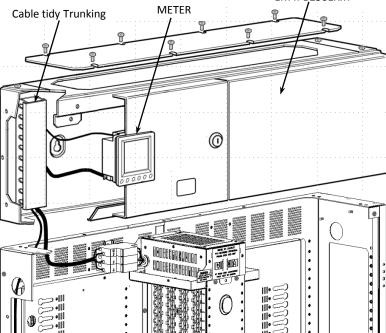
#### POWER SUPPLY TAP OFF FITTING EM4PBVT

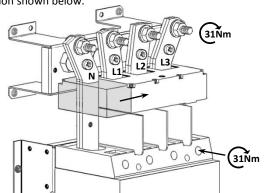
Fit the DIN rail before mounting the fuse block.

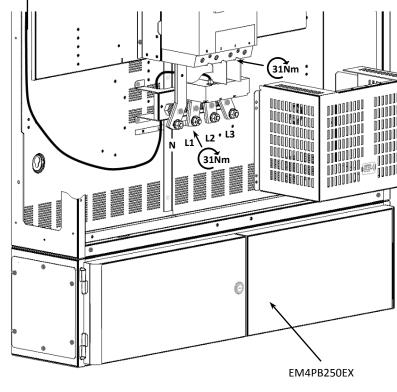
For Incoming Meter Pack always fit the fuse block on the LH side, otherwise the fuse block can be fitted on either side of the pan. Feed the cables through the grommet and position to suit the breakout in the top busbar removable shield. Replace the shield and ensure the grommet is captured in the breakout.



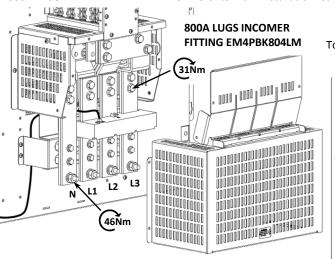
### INCOMING METER BOX ASSEMBLY - EM4PB250EXM AND METER Incoming Meter Box can be fitted top or bottom. METER METER





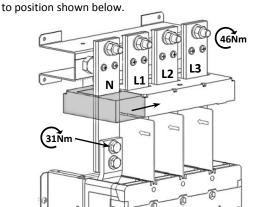


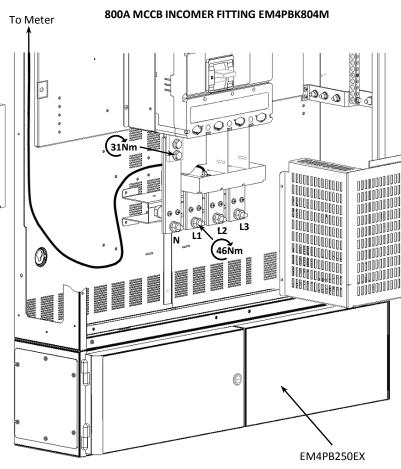
800A INCOMER METER KIT FITTING - Refer to main installation leaflet LTXXXX for additional fitting details (EM4PBK804 and EM4PBK804L)

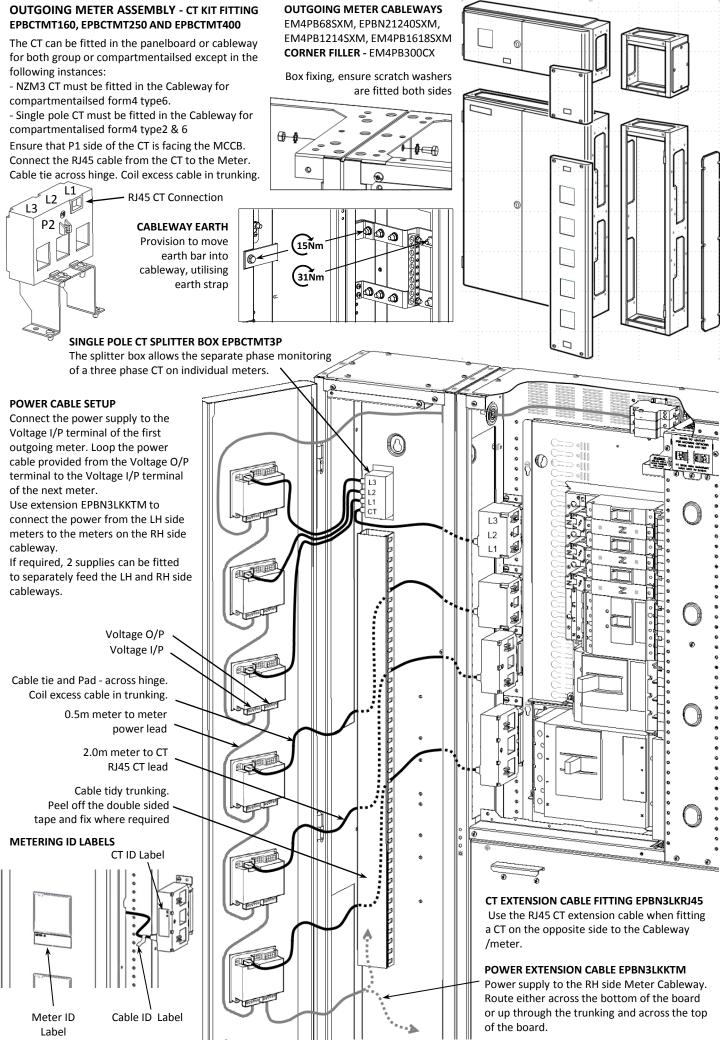


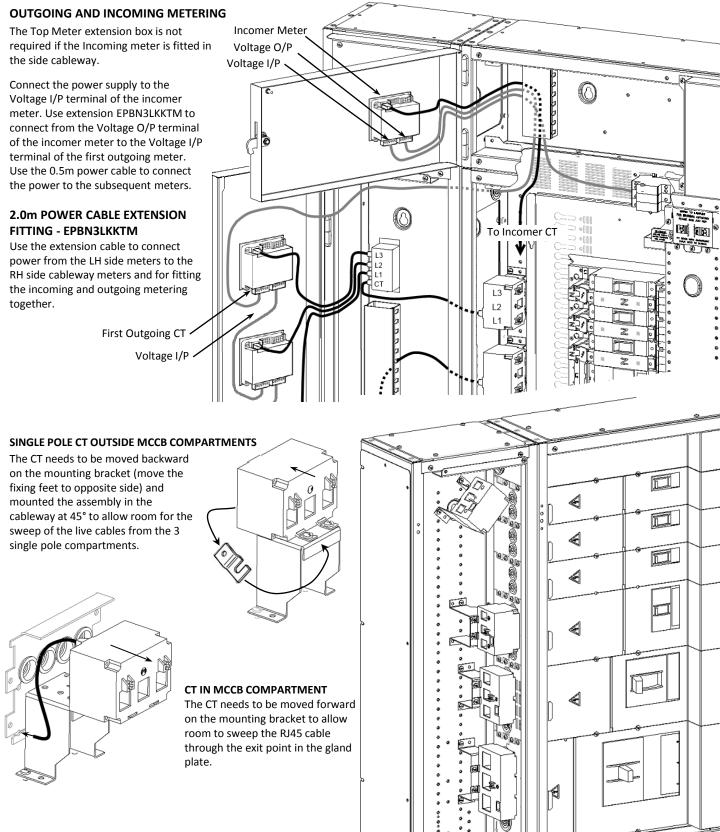
#### TOP ENTRY FITTING EM4PBK804M

CT needs to be moved from delivered position (shown shaded)









General Note: Torque all M5 fixings to 3.8Nm Max.

#### Warning -

#### Intellectual Property Rights

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No responsibility can be accepted by us if these instructions are disregarded. Further copies of these instructions and information concerning the installation and proper use of this product can be obtained by contacting the: **Technical Services Department** 

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