

Technical data

Some of the toughest energy regulations ever seen in the UK are now in force. Part L2 of the Building Regulations introduced in England and Wales in 2006 addresses the conservation of energy in Public, Commercial and Industrial buildings, setting high standards for architects, engineers and contractors to create a more sustainable built environment.

For electrical distribution applications

For Three phase applications, the EBMMPT250 employs a multi-function meter to measure the electrical parameters on the supplies to TPN distribution boards. It can also be used to meter single-phase loads.

The unit is supplied complete with CT's and wiring terminals. Suitable for applications up to 250A with a pulsed output for kWh, the meter also monitors for display, other parameters, including line voltage and current. The voltage reference connection within the associated distribution board is facilitated on the back of one outgoing MCB, maintaining the full capacity of outgoing circuits.

Designed to provide a solution for separate "small power" and "lighting" applications, the unit is supplied complete with Incomer, two sets of CTs and two multifunction meters.

Type B meter pack assemblies

- Meterpacks for standard type B standard distribution boards
- 120A direct connected or CT fed versions available for 125/250A applications
- Aids compliance with part L2 of building regulations in England and Wales
- 120A version is OFGEM certified and suitable for billing applications where required – MID certified CT fed version also available for 125/250A billing applications
- Choice of pulsed output kWh information or Modbus RS 485

Meterpack assemblies – TPN, type B distribution boards

Description	Rating (A) (total load)	Installed meter, characteristics	Eaton list number
Meterpack for TPN, type B distribution boards	250	Pulsed output, kWh	EBMMPT250
Meterpack for TPN, type B distribution boards	250	Modbus + pulsed output, kWh	EBMMPT250M
Meterpack for TPN, type B distribution boards	250	MID certified meter	EBMMPT250MID
Double meterpack for 2 x TPN, type B distribution boards	250	Pulsed output, kWh	EBMMPSL250
Double meterpack for 2 x TPN, type B distribution boards	250	Modbus + pulsed output, kWh	EBMMPSL250M
Double meterpack for 2 x TPN, type B distribution boards	125	Pulsed output, kWh	EBMMPSL125
Double meterpack for 2 x TPN, type B distribution boards	125	Modbus + pulsed output, kWh	EBMMPSL125M
Meterpack for TPN, type B distribution boards	120	MID certified	EBMMPDC120



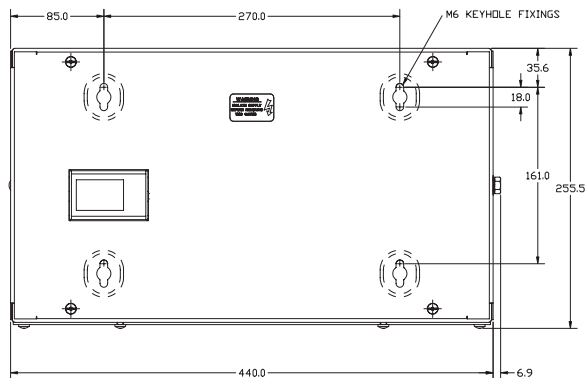
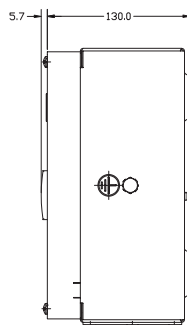
EBMMPT250

EBMMPSL250

250A split load meter pack (Shown fitted below two standard Memshield 3 type B boards)

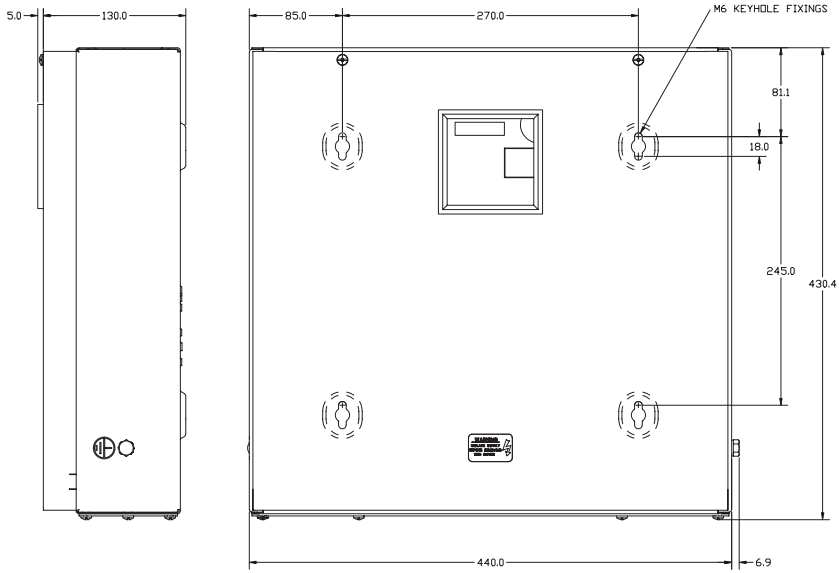


EBMMPT250

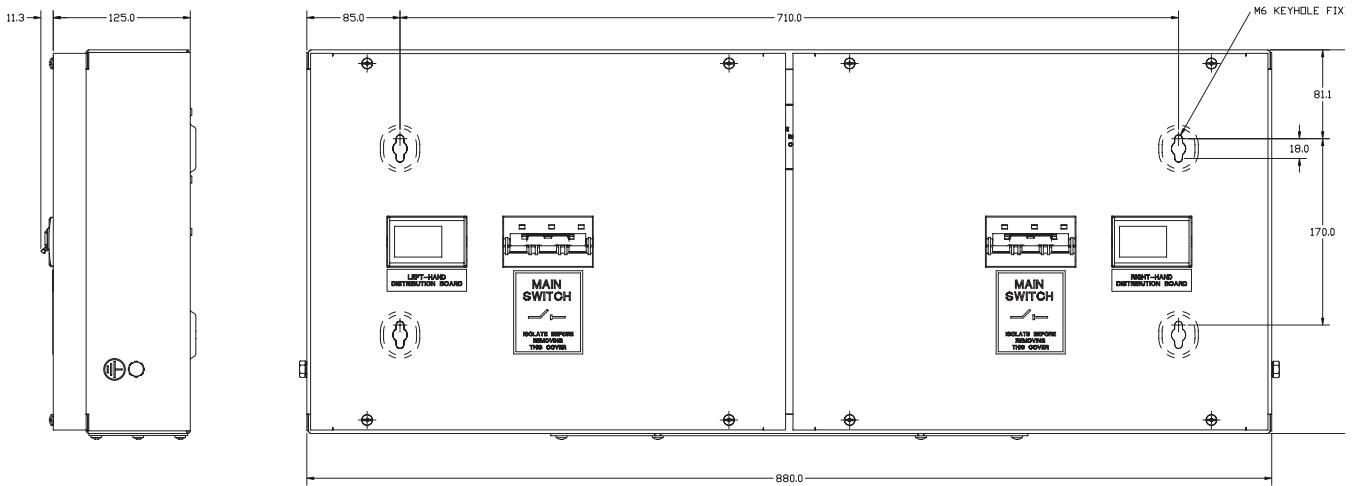


Powering Business Worldwide

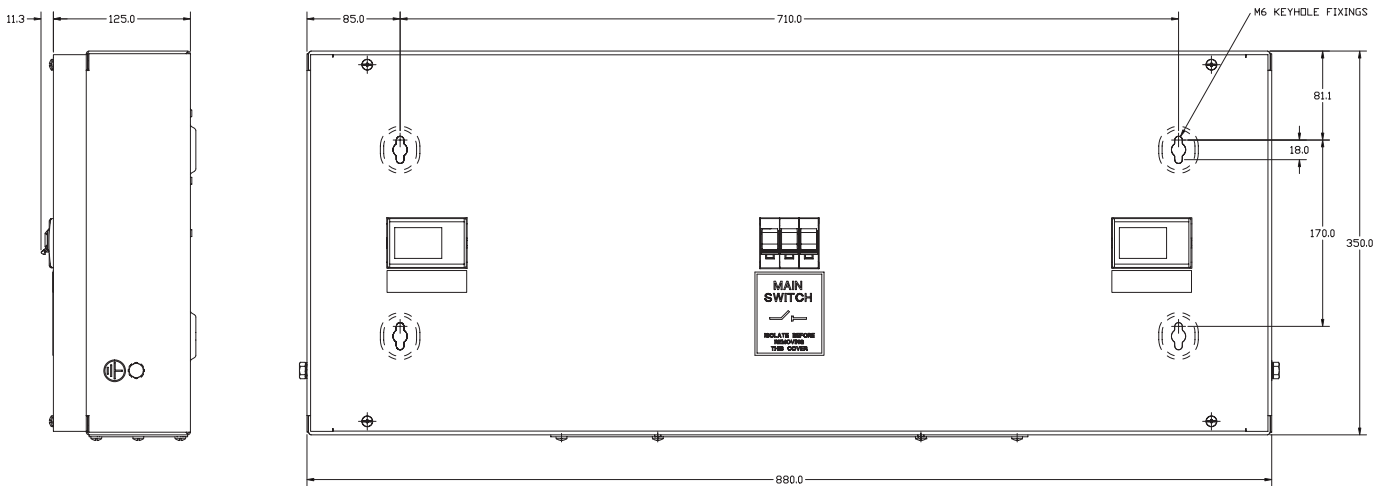
EMMPCD100



EMMPSL250



EMMPSL125



Eaton's unique solution uses smart meter technology to monitor embedded transducers in a high integrity shrouded 200A busbar assembly. This solution provides independent readings of each section of the board as net values, as well as providing information of the total demand on the board – all from a single smart meter.

A choice of two meter options provide either two pulsed output signals for kWh information, or Modbus RS 485 communication.

Both meters display other useful parameters, including line voltage and current for each section of the board, plus power factor and max demand information. Through the Modbus RS 485 version meter these parameters can also be accessed remotely.

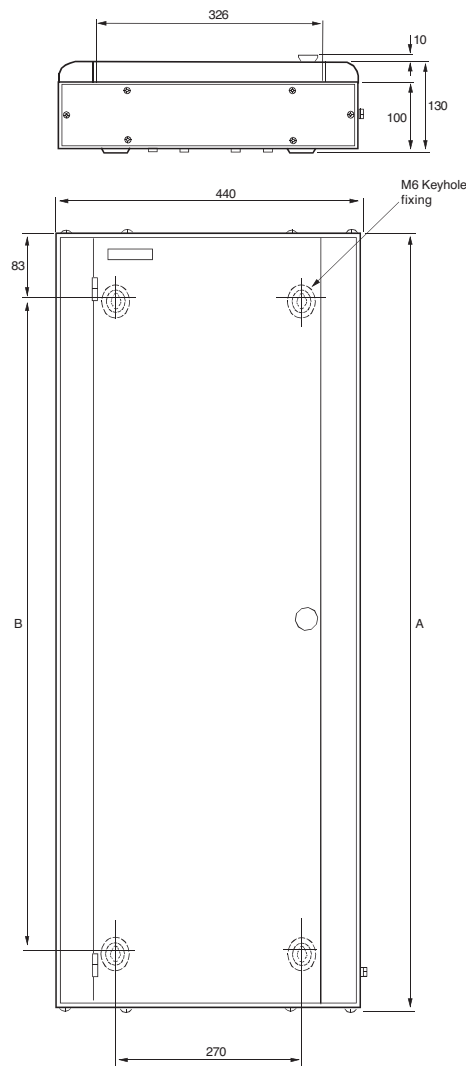
Eaton's new smart metered board is the same width of a standard TPN board (440mm) and is available in four sizes up to 24 TPN ways. The metering elements and 200A incomer switch disconnecter are preinstalled and tested, allowing the installer to focus on the outgoing circuits alone.

- Calculates the net values of each section of the distribution board without further external calculations
- Meter transducers within busbar profile reduces overall board size, saving valuable space
- Meter and transducers are matched to ensure meter accuracy and MID compliance

Type B meter pack assemblies

- Meterpacks for standard type B standard distribution boards
- 120A direct connected or CT fed versions available for 125/250A applications
- Aids compliance with part L2 of building regulations in England and Wales
- 120A version is OFGEM certified and suitable for billing applications where required – MID certified CT fed version also available for 125/250A billing applications
- Choice of pulsed output kWh information or Modbus RS 485

Description	Configuration	Bottom section outgoing ways	Top section outgoing ways	Eaton list number
200A TPN type B distribution board				
200A type B, TPN Board with integrated Pulsed output meter	6 + 4	6	4	EBMSL642M
200A type B, TPN Board with integrated Modbus meter	6 + 4	6	4	EBMSL642MB
200A type B, TPN Board with integrated Pulsed output meter	8 + 6	8	6	EBMSL862M
200A type B, TPN Board with integrated Modbus meter	8 + 6	8	6	EBMSL862MB
200A type B, TPN Board with integrated Pulsed output meter	10 + 8	10	8	EBMSL1082M
200A type B, TPN Board with integrated Modbus meter	10 + 8	10	8	EBMSL1082MB
200A type B, TPN Board with integrated Pulsed output meter	14 + 10	14	10	EBMSL14102M
200A type B, TPN Board with integrated Modbus meter	14 + 10	14	10	EBMSL14102MB



Eaton list number	A (mm)	B (mm)
EBMSL642M	1130	946
EBMSL642MB	1130	946
EBMSL862M	1236	1052
EBMSL862MB	1236	1052
EBMSL1082M	1342	1158
EBMSL1082MB	1342	1158
EBMSL14102M	1501	1317
EBMSL14102MB	1501	1317



Powering Business Worldwide

Eaton Electric Limited

Grimshaw Lane
Middleton
Manchester M24 1GQ
United Kingdom
Customer Support Centre
Tel: +44 (0)8700 545 333
Fax: +44 (0)8700 540 333
email: ukcommorders@eaton.com

© 2013 Eaton Corporation
All Rights Reserved
Printed in UK
Form No. TD00501004U
July 2013

www.eaton.com/uk