

Kilowatt Hour Meter Retrofit Kits for B series MDAs

Managing power usage on a construction site can only be effective if the electricity consumption from different parts of the site can be identified.

When new distribution equipment is purchased, it is an easy job for us to incorporate kilowatt hour (kWhr) meters on main incomers, as well as on outgoing circuits. Meters can be networked together and sophisticated data acquisition software can be incorporated, see separate data sheet for an outline of the products available.

However, there is also a requirement to fit basic kWhr metering on assemblies that are already installed on projects, as well as the need to update existing distribution equipment, prior to deployment on to new projects.



kWhr kit fitted into a B2 series 100A MDA

The ease with which existing assemblies can be retrofitted with kWhr metering varies from assembly to assembly (it is likely both mechanical fitting and wiring skills will be required). However the range of Retrofit kWhr Kits detailed on this data sheet makes the job as easy as possible to fit kWhr meters to most existing B series MDAs, whether working on site or in the workshop.

The kits incorporate a multi-function meter, split core CTs to minimise the need to disturb existing cabling, auxiliary fusing, DIN rail and a wiring diagram. Additional bracketry may also be required but this would be supplied separately as it is dependent on the specification of the assembly to be modified. An IP65 enclosure can also be supplied, enabling the kWhr meter to be mounted on the outside of the assembly with only the CTs and fuses to be fitted within the MDA. The multi-function meter incorporated in the kit has a pulsed output and will also display volts, amps and power factor. Non-standard kits can be provided which incorporate MID Approved Meters and these can be used to bill sub-contractors, etc., for their electricity consumption.

Part Numbers		
Part No.	Type	Description
S141047	Retrofit kWhr kit, 100A	Comprising of a multi-function meter (non-MID approved kWhr), 3 no. 100:5 split core CTs, 3 no. fuse bases, 3 no. HRC fuses, auxiliary wiring
S141048	Retrofit kWhr kit, 200A	Comprising of a multi-function meter (non-MID approved kWhr), 3 no. 200:5 split core CTs, 3 no. fuse bases, 3 no. HRC fuses, auxiliary wiring
S140344	Retrofit kWhr kit, 400A	Comprising of a multi-function meter (non-MID approved kWhr), 3 no. 400:5 split core CTs, 3 no. fuse bases, 3 no. HRC fuses, auxiliary wiring
S140409	Retrofit kWhr kit, 800A	Comprising of a multi-function meter (non-MID approved kWhr), 3 no. 800:5 split core CTs, 3 no. fuse bases, 3 no. HRC fuses, auxiliary wiring
S140439	Retrofit kWhr kit, 1600A	Comprising of a multi-function meter (non-MID approved kWhr), 3 no. 1600:5 split core CTs, 3 no. fuse bases, 3 no. HRC fuses, auxiliary wiring
S050607	External enclosure to enable kWhr meter to be mounted on side of existing MDA	