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Specifications for Type M3 Digital Multifunction Meters

On a per floor basis, Distribution Board Metering when applied for power and light distribution monitoring will help in an overall Energy Management Solution. These metering products are typically deployed on sub-switchboard scenarios. Typically, this metering occurs for power and light distribution per floor of a building, often included to satisfy J8 of the Australian Building Code and may be connected to the Energy Management System.

When choosing an Digital Multifunction Meter, check how the vendor's product specifications compare with this suggested set of minimum requirements for a Digital Multifunction Meter.

Typical uses might be

- Distribution Boards (DBs) sub-metering
- BCA J8 Metering

All M3 meters shall meet the following requirements

- Operating temperature range of
- -25°C to $+70^{\circ}\text{C}$.
- Circuit boards to be tropicalised.
- Industrial Grade Components
- 3 years Manufacturers Warranty as a minimum.
- Australian RCM Approval
- Backlit white LCD Display Screen
- IEC 62053-22 Class 1 accuracy for KWH (1% to 120% of I_n .)
- Starting Current less than 0.1% of I_n .
- VLN and VLL per phase and average
- Current per phase and average
- Frequency
- KW per phase and total
- KVAR per phase and total
- KVA total
- PF per phase and total
- KVAH
- KWH import/export
- KVARH import/export
- Optically isolated RS485 port
- Modbus RTU protocol
- Optional Analogue Output
- Optional 2 x DI and 1 x DO
- CETA PMC-D726M or PMC-512A where three or four circuits are monitored or Equivalent.