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Specifications for Type M2 Intelligent Multifunction Meters

After the Main Incomer, the Main Switch Board Metering applications help facilities owners manage energy usage. Metering products are deployed in the main switchboards for feeder Energy Monitoring and Management as well as optimisation of power quality parameters.

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

Typical use would be

- Main Switchboards sub-mains metering.

All main switchboard meters shall meet the following requirements

- Operating temperature range of
 - -25°C to +70°C.
- Circuit boards to be tropicalised.
- Front Enclosure rating of IP54.
- Industrial Grade Components
- 3 years Manufacturer's Warranty as a minimum.
- Australian RCM Approval
- Backlit white LCD Display Screen
- 110 degree or greater viewing angle
- Panel mount 96mm x 96mm
- IEC 62053-22 Class 0.5S accuracy for KWH (1% to 120% of In.)
- Starting Current less than 0.1% of In.
- 4MB or more of on board memory
- Neutral Current
- VLN and VLL per phase and average
- Current per phase and average
- Frequency
- KW per phase and total
- KVAR per phase and total
- KVA per phase and total
- PF per phase and total
- KVAH
- KWH import/export
- KVARH import/export
- Demands and TOU
- 31st Individual Harmonic on board
- V and I Unbalance
- V and I THD, K-Factor
- SOE and Min/Max log
- Battery backed real time clock
- Optically isolated RS485 port
- Modbus RTU protocol
- CETA PMC-53A or Equivalent