

Energy METER SECTION

Single Phase ENERGY METER up to 63A

iEM2110

- A. The Energy Meter shall be self powered and shall provide direct measurement of the Real Energy (kWh) on a single-phase network (92 VAC to 276 VAC) up to $I_{max} = 63$ A. The frequency range will be 50/60 Hz.
- B. The Energy Meter shall be equipped with a 6+2 digit display for measurement up to 999999.99 in kWh and for configuration.
- C. The Energy Meter shall be equipped with a flashing red indicator used to check the accuracy of the meter: 1000 flashes / kWh.
- D. The Energy Meter shall be equipped with partial metering and reset. Whether the meter is in total or partial metering, the display should indicate this status clearly.
- E. The meter shall have two pulse outputs with user-selectable information:
 - a. kWh delivered, kWh received
 - b. kWh tariff 1, kWh tariff 2
 - c. kvarh delivered, kvarh received
 - The number of pulses per kWh or kvarh shall be programmable by the user, from 1 to 1000
 - The pulse length shall be programmable by the user, from 30 ms to 100 ms
 - The pulse output shall be S0 type according to IEC62053-21
- F. The energy meter shall have two tariffs, with tariff switching controlled by a digital input
- G. The Energy Meter shall be of DIN Rail type and shall be of Max Depth of 64 mm when installed on the DIN Rail.
- H. The Energy Meter active energy accuracy shall be class 1 conforming to IEC 62053-21 and EN50470-3
- I. The Energy Meter reactive energy accuracy shall be class to conforming to EN 62053-23
- J. The meter shall be rated for an operating temperature range of -25°C to $+55^{\circ}\text{C}$.
- K. The Energy Meter shall be equipped with anti-tamper security feature to ensure the integrity of the measurements.
- L. The Energy Meter shall be MID certified.