

Three Phase Energy Meter

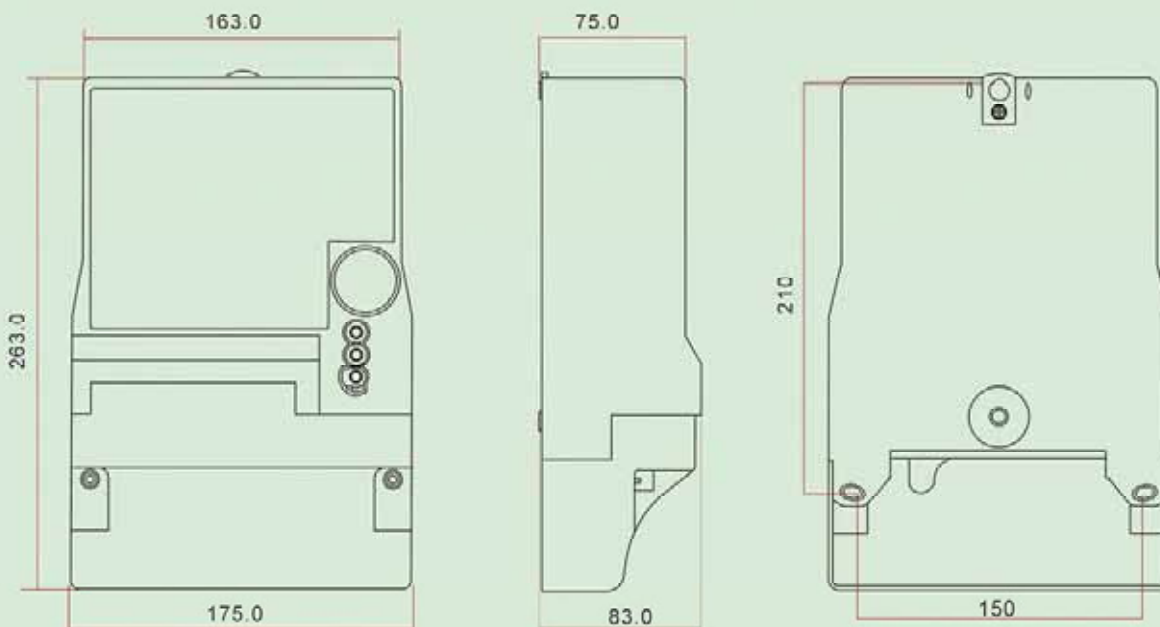
Model B2000

Type P2000-T or P2000-D

Certified by 



- *Measurement & Registration of KWh, kvarh, kVAh*
- *Maximum Demand Registration kW, kvar & kVA*
- *TOU Control with flexible programming up to 8 tariffs*
- *Load Profile recording > 450 days @ 30 minutes interval*
- *Backup battery to read meters during Mains Power failure*
- *Easily read-able LCD large characters with backlight*
- *LCD Working temperature up to 70 °C, will not fade away upon High Heat*
- *One whole body of meter casing, no need to seal the meter cover*



Measurement and Registration

- Energy: kWh, bi-directional metering import & export
- Maximum Demand with time stamps
- Load profile recording

TOU (Time of Use) Control

- Tariff switching Int clock or Ext signal
- Number of tariffs Up to 4 tariffs
- Number of seasons Up to 4 tariff seasons
- Number of day profiles Up to 4 day profiles
- Maximum Demand Up to 4 tariffs

Data Storage

- Energy & Max demand: Current and Last 16 months
- Load profile –
Integration period: 1, 5, 10, 15, 20, 30 or 60 min
storage > 450 days with integration period 30 min
- Data Retention: 25 Years

Events Registration

- Power breakdown
- Per-phase voltage-loss
- Voltage-under/over
- Per-phase current-loss
- Exploitation time for each tariff
- Last meter programming date & time
- Reverse current flow

Communications

- Optical Port IEC 62056-21
- RS 232/485 IEC 62056-21,
MODBUS

Display

- Cyclic data indication automatically or by keys
- Data indication on LCD during power outages
- 8 Large digit LCD, with 7 digit OBIS/EDIS

B2000 Technical Specifications

Ratings

- System 3P 3W, 3P 4W
- Accuracy class Class 0.5S, Class 1
- Standard IEC 62053-21, 22 / 23
- Reference voltage Un 3 x 90/157...240/415V
- Reference (maximum) current
Direct Connected 5(60)A 10(120)A, 20(160)A
- Current threshold
Direct Connected 0.2% Ib Class 0.5S
0.4% Ib Class 1
- Reference Frequency 50/60 Hz
- Power consumption:
in voltage circuit < 1.5 W; < 3 VA
in current circuit < 1 VA
- Temperature ranges:
meter operating -30°C to +70°C
meter storage -45°C to +85°C
- Humidity: <= 95%

Internal real-time clock with backup batteries

- Time-keeping accuracy < 0.5 Sec / 24Hours
- Clock operating with battery > 15 years

Inputs and Outputs

- Electric pulse output (SO) Test output
- LED test output 400 - 16000 imp/kWh
- Load control Relay 100A 240V

Case and Dimension Sizes

- Casing Polycarbonate
- Terminal cover Polycarbonate
- Terminal Block Bakelite
- Insulation Protective Class II
- Water-proof IP53, IEC 529
- Dimensions & Weight 263 x 175 x 83 mm
(basic model) Arpox. 1.5 Kg

Security

- Meter programming by sealed button and password