

Three Phase Energy Meter

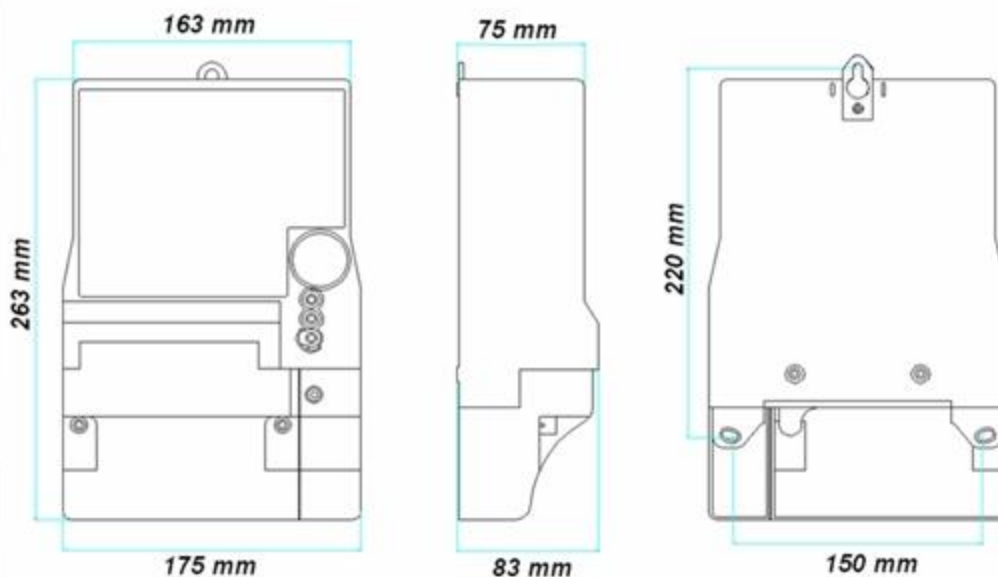
P2000-D

(Upgraded from B1000 & B2000)

Certified by



- Measurement & Registration of KWh
- Maximum Demand Registration
- TOU Control with flexible programming of 4 tariffs
- **Load Profile recording > 450 days @ 30 minutes interval**
- **AMR Ready with RS-485**
- **Backup battery to read meters during Mains Power failure**
- **Rechargeable batteries certified > 15 years, no need to replace**
- Easily read-able LCD large characters with backlight
- **LCD Working temperature up to 70C, 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
 - Current [T1 ... T4, T Σ]
 - Last 16 months [T1 ... T4, T Σ]
- Max Demand
 - Current [T1 ... T4, T Σ]
 - Last 16 months [T1 ... T4]
- Load profile - Integration period: 15, 30 or 60 min
 - > 450 days with integration period 30 min
- Data Retention: 25 Years

Events Registration

- Power outages with date & time
- Per-phase voltage-loss with time stamps (optional)
- Voltage-under/over with time stamps
- Per-phase current-loss with time stamps (optional)
- Exploitation time for each tariff (optional)
- Last meter programming date & time
- Reverse current flow indication on LCD

Communications

- | | |
|---------------------|--------------|
| ○ Optical interface | IEC 62056-21 |
| ○ RS 232/485 | IEC 62056-21 |
| ○ Infrared | IEC 62056-21 |

Display

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

Security

- Meter programming by sealed button and password

P2000-D Technical Specifications

Ratings

- | | |
|-----------------------------|-----------------------|
| ○ System | 3P 3W, 3P 4W |
| ○ Accuracy class | Class 0.5S, Class 1 |
| ○ Standard | IEC 62053-21,23 |
| Reference voltage Un | 3 x 90/157...240/415V |
| Reference (maximum) current | |
| Direct Connected | 10(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 W; < 1 VA |
| in current circuit | < 0,05 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 |
| ○ Push-buttons | Display browsing |
| | Programming Protection |

Case and Dimension Sizes

- | | |
|-----------------------|--------------------------|
| ○ Case Materials | Reinforced Polycarbonate |
| ○ UV Stabilized Cover | Reinforced Polycarbonate |
| ○ Insulation | Protective Class II |
| ○ Dimensions (mm) | 274 x 167 x 66 |
| ○ Weight | 1.4 Kg |
| ○ Water-proof | IP-54 |

Accompanied Software

Bluestar Metering Program will be provided on request or with meters purchasing. This Windows-based application can be used to program meter's parameters, read meter's data and load profile curves.