

Premier 300

CT/VT-Operated Energy Meter

Premier is the family of CT/VT operated meters, which covers a wide range of power levels and offers flexible time-of-use tariff metering and communications capabilities.

Premier 300 is the latest offering from this family having enhanced event detection facility and interoperable DLMS communication protocol. It is available in various accuracy classes and wiring configurations.



Application

- CT/VT-operated industrial and commercial billing purpose
- Remote data collection for billing and consumption analysis
- Transformer metering, boundary metering and substation monitoring

Benefits

- A wide range for catering to various utilities requirement
- High precision metering
- Revenue protection
- Suitable for doing load analysis and energy audit

Features

- True four quadrant metering
- Import/Export metering and forwarded metering option for LT/HT systems
- Distribution transformer metering events support viz high and low voltage, under and over load
- Time of day metering with maximum demand registration and automatic billing
- Backlit LCD display with annunciators for various critical events
- Scroll lock feature for continuous display of a desired parameter on display
- High-resolution energy display mode for dial test
- DLMS protocol for meter reading, with option for remote reading port
- Advanced event detection features for voltage, current and magnetic influences
- Two metrology LEDs for accuracy testing of different energy types
- Meter reading in the absence of mains, using internal battery

Premier 300

Technical specifications

Electrical

| | LT | HT |
|----------------------|-----------------|--------------------------------|
| Connection type | CT-operated | CT/VT-operated |
| Wiring configuration | 3-phase 4-wire | 3-phase 3-wire, 3-phase 4-wire |
| Voltage range | 230/240 V (P-N) | 110 V (P-P), 63.5 V (P-N) |

Applicable to both LV and HV

| | |
|-----------------|--|
| Current range | -/5(10) A, -/1(2) A * |
| Accuracy | Class 0.2S, 0.5S for HT and Class 0.5S |
| Mains frequency | 50 Hz \pm 5% |
| Burden | As per standards |

Compliance

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|-----------|--|
| Standards | IS 14697, IEC 62052-11, IEC 62053-21, IS 15959 |
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Mechanical

| | |
|------------------------|---|
| Dimensions (W x H x D) | 191 x 255 x 82 mm (approx.) |
| Weight | 1.8 kg (approx.) |
| Enclosure | Engineering plastic |
| Sealing | Provision of sealing on main cover and terminal cover |

Environmental

| | |
|--------------------|--|
| Ingress protection | IP 51 |
| Temperature | -10 °C to +55 °C (operating) -25 °C to +70 °C (storage) |
| Humidity | 95% non-condensing RH |

Features

| | |
|-----------------------|---|
| Tariff rate registers | Up to 8 rate registers, for two energy channels |
| Maximum Demand | Up to 2 types, configurable in 8 registers |
| Load Survey | Up to 90 days load profile for 8 parameters (configurable), with 30 minute integration period. |
| Communication | Optical port for local communication Optional RS 232 / RS 485 port on RJ-11 for remote communication. Optional RS 485 port on RJ-11 with MODBUS |

* For more details, contact your nearest sales office