

# Premier 300

## CT/VT-Operated Energy Meter

Premier is a versatile three-phase CT/VT operated meter, designed for a wide range of LV, MV and HV measurement applications.

It supports flexible time-of-use tariffs for efficient demand-side management and provides enhanced event detection facilities. Premier 300 has a comprehensive range of communications options, including interoperable protocols (DLMS), for connectivity with backend systems for monitoring and billing.



### Application

- CT and CT/VT-operated industrial and commercial billing
- Remote data collection for billing and consumption analysis
- Transformer metering, import/export 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, with 'forwarded' metering option for LV/HV systems
- Total harmonic distortion for voltage, current and active power (phase wise)
- Distribution transformer metering events support, including high and low voltage, under and overload
- TOU 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
- High-resolution energy display mode for dial test
- DLMS protocol for meter reading, with optional 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

Connection type	CT or CT/VT operated
Wiring configuration	3-phase 4-wire (LV and HV, 3 element) or 3-phase 3-wire (HV, 2 element)
Voltage range	230/240 V (L-N) for LV   63,5 V(L-N), 110 V (L-L) for HV
Current range	-/5(10) A for LV and HV   -/1(2) A for HV
Accuracy	0.5S, 0.2S
Mains frequency	50 Hz $\pm$ 5%
Burden	Voltage circuit 2Watt, 10VA   Current circuit 1VA

### Compliance

Standards	IEC 62052-11, IEC 62053-22, IEC 62053-23, IEC62056* (*HDLC data link layer at 9600 baud )
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### Mechanical

Dimensions (W x H x D)	191 x 255 x 82 mm (approx.)
Weight	2 kg (approx.)
Enclosure	Engineering plastic
Sealing	Provision of sealing on main cover and terminal cover

### Environmental

Ingress protection	IP 51
Insulation class	Protective class II
Impulse withstand	6 kV
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 on RJ-11 for remote communication, or RS 485 port on RJ-11 for remote communication or Modbus

\* For more details, contact your nearest sales office

Specifications are subject to change without prior notice. (11-11)