

Premier 500

CT / VT operated energy meter



Import / export
metering



Revenue
protection



Interoperable
communication

Accurate and interoperable comms with advanced event detection for LV, MV and HV metering

The Premier series is a family of CT / VT-operated meters which offers flexible time-of-use tariff metering and communications capabilities. The latest addition to this new family is Premier 500, equipped with enhanced event detection capabilities and an 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

- Offers variety of options to suit utility needs
- High precision metering
- Revenue protection
- Suitable for performing load analysis and energy audit

Features

- True four-quadrant metering
- Import / Export metering and forwarded metering option for LT / HT systems
- Support for high-voltage and low-voltage distribution transformer metering events, as well as under and over-loading events
- Time of day metering with maximum demand registration and automatic billing
- Backlit LCD display with annunciators for various critical events
- Continuous display of the desired parameter through scroll lock feature
- High-resolution energy display mode for dial test
- Remote meter reading over DLMS protocol through RS 232 / RS 485 port
- Voltage, current, and magnetic event detection features
- Two metrology LEDs for accuracy testing of different energy types
- Battery-operated meter reading in the absence of mains power



Technical Specification

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	240 V(P-N)	110 V(P-P), 63.5 V(P-N)
Current range	-/5(10) A	-/5(10)A or -/1(2)A
Accuracy	Class 0.5s	Class 0.2s, 0.5s

Applicable to both LV and HV

Mains frequency	50 Hz \pm 5 per cent
Burden	As per standards

Compliance

Standards	IS 14697, IS 15959 part 1
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Mechanical

Dimension W x H x D	179 x 231 x 70 mm (approximately)
Weight	1 \pm 0.2 Kg
Enclosure	Engineering plastic
Sealing	Break to open enclosure, Sealing provision meter cover, optical port and ETBC

Environmental

Ingress protection	IP 54
Temperature	-10 °C to +55 °C (operating) -25 °C to +70 °C (storage)
Humidity	95 per cent 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-45 for remote communication Optional RS 485 port on RJ-45 with MODBUS

Africa
africa@securemeters.com

Australia
sales_australia@securemeters.com

Europe
sales_eu@securemeters.com

India
sales_india@securemeters.com

South East Asia, South Asia
sales_sea@securemeters.com

UAE
sales_uae@securemeters.com

UK
sales_uk@securemeters.com

www.securemeters.com