

## Composite, thread through communicable metering unit

Prodigy is a genuine innovation in the field of three phase direct connected metering. It is an integrated meter with built-in current transformers, eliminating the need for external CTs and accessories. Prodigy is based on the unique concept of thread-through connections, which helps maintain overall system accuracy and revenue integrity.



### Application

- Distribution transformer (DT) metering
- Energy audit and system analysis
- Low-voltage high-current commercial metering

### Benefits

- Better overall system accuracy than a traditional meter and associated CTs
- Easier to install than traditional DT metering
- Reduced cost for equipment, installation and maintenance by eliminating the need for external CTs, meter enclosure and accessories
- Increased reliability and tamper resistance compared with traditional installations
- Easy diagnosis of installation faults via a complete set of instantaneous electrical parameters
- Data transfer push and pull facilitate to easy integration with 3<sup>rd</sup> party DAS/Head-end system

### Features

- True four-quadrant metering
- Programmable time-of-use (TOU) tariffs and maximum demands (MD)
- Thread-through arrangement: field cable passes directly through the meter
- Large backlit LCD with phase indicators and parameter identification
- Display scroll lock for continuous display of desired parameters
- Logging of billing data and multi-parameter load survey
- Interoperable DLMS protocol for meter reading and option of reading through remote using 4G/GPRS network
- Meter reading in absence of mains using internal battery
- Distribution transformer metering events support, viz. high and low voltage, under and overload
- Advanced event detection features for voltage, current and magnetic influences



## Technical specifications

### Electrical

Connection type	Direct connected
Wiring configuration	3-phase 4-wire
Voltage range	230/240 V (L-N)
Current range	40-200 A
Accuracy	Class 1.0
Mains frequency	50 Hz $\pm$ 5%
Burden	Voltage circuit: < 1.0 W, 1.5 VA per phase
Insulation class	Protection class II
Impulse withstand	10 kV

### Compliance

Standards*	IS 13779, IEC 62052-11, IEC 62053-21, IEC 62053-23*
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### Mechanical

Dimensions (W x H x D)	365.0 X 283.0 X 221.0 mm (with extended terminal cover)
Weight	4.5 kg (approx.)
Enclosure	Double-insulated glass-filled polycarbonate
Terminals	Thread-through design suitable for current up to 200 A
Sealing	Provision for sealing screws

### Environmental

Ingress protection	IP 54
Temperature	-10 °C to +55 °C (operating) -25 °C to +70 °C (storage)
Humidity	95% non-condensing

### Features

Tariff	Up to 8 rates, configurable for 3 energy types
Maximum demand	Up to 2, configurable across 8 registers
Load survey	Up to 1000 parameter-days at 30-minute integration period
Communication	Optical port with built in GSM/GPRS or 4G

Contact your nearest sales office for more details

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