# **Prodigy**

### **Distribution Transformer Meter**

Prodigy is a genuine innovation in the field of three-phase LV CT-operated 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.



#### **Applications**

- 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

#### 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
- Special load-profiling and event-logging for energy auditing
- Optional inductively-coupled external power pack for meter reading in the absence of mains supply



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### 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 ± 5%

Burden Voltage circuit: < 1.0 W, 1.5 VA per phase

Insulation class II Protection class II

Impulse withstand 6 kV

Compliance

Standards IS 13779, IEC 62052-11, IEC 62053-21\*

Mechanical

Dimensions (W x H x D) 272 x 364 x 192 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  $-10 \, ^{\circ}\text{C}$  to  $+55 \, ^{\circ}\text{C}$  (operating)  $-25 \, ^{\circ}\text{C}$  to  $+70 \, ^{\circ}\text{C}$  (storage)

95% non-condensing

Features

Humidity

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

Optional RS 232 port for remote communication

Optional built in LPR (2.4 GHz)
Optional built in GSM/GPRS



<sup>\*</sup> Standards compliance and communications facilities depend on product variant.