

Elite 200

Digital Panel Meter

Elite 200 is a digital panel meter specially designed for dual-source energy metering. It has two registers for recording, separately the energy consumption from the mains and auxiliary supplies (such as a diesel generator).

It also provides load control so that the supply can be disconnected if the load exceeds a pre-set limit. This is particularly useful for installations where the auxiliary supply has a lower capacity than the mains.

The Elite 210 variant provides Modbus communication over RS-485 for online monitoring applications.



Applications

- Metering of dual-supply installations (mains and backup generator)
- Load control applications
- Online monitoring systems
- Commercial and industrial sub-metering applications

Benefits

- Open-circuit protection for external CTs
- Easy interfacing with external devices through pulse I/O
- Minimal installation costs through easy fitting and detachable connectors
- Cost-effective online monitoring
- Helps consumers monitor their consumption

Features

- Accuracy class 1.0 and 0.5s
- Separate energy registration for mains and backup supply (such as DG)
- Forwarded energy registration in case of current reversal
- Accurate readings even at very low current
- Compact DIN 96 panel meter
- One pulse input for switching of metering between mains and DG
- One pulse output for load control (load monitoring based on average load over the last 60 seconds)
- Power On/Off hours recorded for mains supply and backup supply
- Time of day tariff registration with maximum demand and billing history recording
- Optional RS-485 Modbus communications (floating point as per IEEE-754 or hexadecimal format)
- Self-diagnostic displays for checking connections
- Meter configuration through push buttons, including CT primary value
- Optical port for local and remote reading

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Technical specifications

Electrical

Connection type	CT-operated
Wiring configuration	3-phase 4-wire
Voltage range	240 V (L-N) / 415 V (L-L)
Current range	1-1.2 A , 5-6 A
Overload	Withstand up to 130 % I_{max} continuous, 20 x I_{max} for 0.5 s
Accuracy	Class 0.5s , 1.0
Mains frequency	50 Hz \pm 5%
Burden	Voltage circuit : < 1.5 W, < 1 VA Current circuit : < 0.5 VA

Compliance

Standards	IS14697, IS13779 IEC 62052-11, IEC 62053-21, 22, 23
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Mechanical

Dimensions (W x H x D)	96 x 96 x 115 mm
Cutout size	92 x 92 mm (DIN 96)
Depth behind bezel	84 mm
Weight	0.4 kg (approx.)
Enclosure	Polycarbonate
Terminals	Combicon connector
Max. conductor size	2.5 mm ²

Environmental

Ingress protection	IP 50 (front panel)
Dielectric strength	
Isolation	4 kV RMS, 50Hz
Impulse withstand	6 kV
Temperature	-10 °C to +55 °C (operating) -25 °C to +70 °C (storage)
Humidity	95% non-condensing

Features

Display	Custom backlit LCD
Favourite page	Configurable via keypad
CT/VT primary	Programmable via keypad
Communications	PACT port, Modbus via RS-485 port
Baud rate (Modbus)	1200, 2400, 4800, 9600, 19200 bd (field-configurable through keypad)
Pulse output (for load control)	
Voltage rating	240 V AC
Current rating	100 mA DC max
Pulse input	
Voltage rating	Variants for 12-40 V DC or 60-240 V AC
Current rating	100 mA DC max