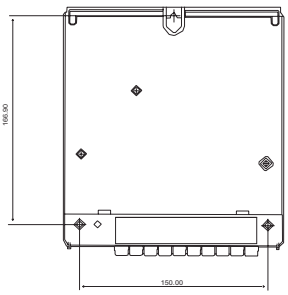
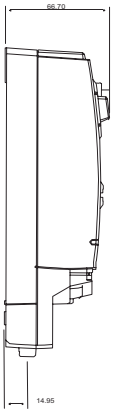
E-Premier

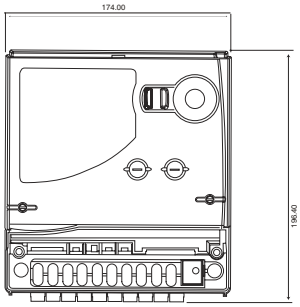
The Premier+ offers:

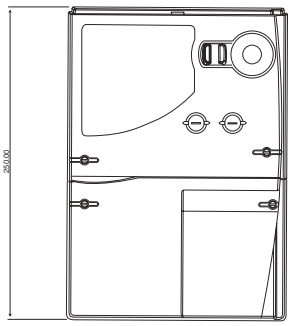
- Full four quadrant metering
- 5 main energy registers
- Load survey recording of:
  - 800 days of 1 channel 30 minute data
  - 400days of 2 channel 30 minute data
  - 266 days of 3 channel 30 minute data
  - 200 days of 4 channel 30 minute data
  - 160 days of 5 channel 30 minute data
- Load survey integration periods of 15, 30 minutes
- 8 time of use and 4 maximum demand registers, user configurable for seasonal control over all 5 energy types
- Maximum demand integration periods of 5, 15, 30 or 60 minutes
- Up to 4 user configurable outputs
- Up to 3 user configurable inputs
- 19200 baud ANSI communication port
- 19200 baud modem port under the terminal cover
- Quality of Supply monitoring feature
- Fast download of survey data - 90 days of 1 channel 30 minute data in less than 15 seconds
- IP53 rated
- 12kV impulse withstand
- Type approved to AS62053.22/21, AS62052.11

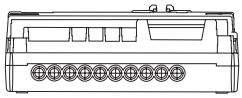
Dimensions











E-Premier technical specification

Premier+ Technical Specification

ELECTRICAL

Wiring configurations

CT Connected 240V or 230V phase to neutral, 3 element 3 phase 4 wire.

CT/VT connected 100/110V phase to phase, 2 element 3 phase 3 wire.

CT /VT connected 57.7/63.5V phase to neutral, 3 element 3 phase 4 wire, 2 phase 3 phase 4 wire, 1 phase 3 wire, 1 phase 2 wire. Additional configurations available on request.

CURRENT

In	5A	1A	5A
Imax	15A	2/3A	10A

Additional configurations available on request.

BURDEN

ALL MODEL TYPES

Current circuits	<0.5VA
Voltage circuits	<0.5VA

METROLOGICAL

AS62053.22/21, AS62052.11, AS1284.5, AS1284.9
Class 3.0S, 1.0S, 0.5S, 0.2S

MECHANICAL

ALL MODEL TYPES

Dimensions (approx.)	W.176 X H.250 X D.67 mm
Enclosure Material	ABS/Polycarbonate
Degree of Protection	IP53
Flame Retardation	UL 94 V0
Weight (approx.)	1 kg

MAINS FREQUENCY

50 Hz +/- 5%

DATA RETENTION

10 years minimum (unpowered)

DISPLAY

Format	LCD
Image Area	75 x 17mm

CLOCK & CALENDAR

Normal Power Source	Mains supply
RTC Backup Source	Lithium battery or super cap.
Battery Life (typical)	10 years
Min. Shelf Life (typical)	3 years

ACTIVITY INDICATOR

Format	High intensity red LED, kwh consumed.
Meter Constant	800 flashes per kWh for 240V 3 phase 4 wire CT connected 100A (scaled for other ratios and voltages).

EU DIRECTIVES

The product complies with 89/336/EEC Electromagnetic Compatibility Directive, amended by 92/31/EEC, by meeting BS EN 61036:1997.

ENVIRONMENTAL

Operating Temperature	-10°C to +55°C
Storage Temperature	-25°C to +70°C
Operating Humidity	Up to 95% non-condensing

TERMINALS

Two screws per conductor. Suitable for cable sizes from 2.5mm^2 to 5.0mm^2

PULSED INPUTS AND OUTPUTS

Premier can be supplied in various hardware builds with up to 7 input/output channels, for example:

4 outputs, 0 inputs
4 outputs, 3 inputs

The CLEM and tariff files determine the exact functionality of inputs and outputs. The hardware-build determines which inputs and outputs are physically provided.

PULSED INPUTS

Up to three external parameters can be counted, with the capability to store values as load survey parameters. Up to three external signals can be used to synchronize time-base or switch time-of-use registers. Inputs are rated for 5-40Vdc operation.

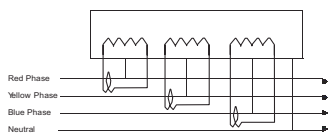
PULSED OUTPUTS

Up to four outputs can be used to indicate energy consumption, active rate, change of rate, end of demand period, or to indicate that a particular rate is active.

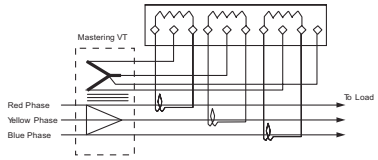
COMMUNICATIONS

Local Interrogation ports	PACT and ANSI ports
Remote Interrogation port	Optically isolated RS232 port under the terminal cover
Protocol	PACT

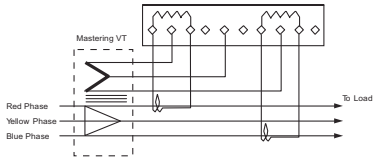
Wiring Diagram



Wiring Configuration for P3T 3 Phase 4 Wire CT connected 230V



Wiring Configuration for P3M 3 Phase 4 Wire CT/VTconnected 63.5V



Wiring Configuration for P3V 3 Phase 3 Wire CT/VTconnected 110V

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