premier product range

PREMIER is a full four quadrant metering platform for use in deregulated markets where data storage, multi utility and AMR facilities are important. PREMIER provides solutions from basic tariff metering through to revenue protection applications.



PREMIER is a cost effective solution for CT and CT/VT applications and provides a single metering platform for accuracy from class 1.0s through to class 0.2s. Available with up to 4 outputs and 3 inputs, load survey storage options of up to 440 parameter days of data including 2 input counters, time of use and maximum demand recording. Two local communications ports are provided on the front of the meter with additional RS232 port under the terminal cover for AMR. PREMIER is UK CoP5 approved.

PREMIER+ features time of use and maximum demand metering and up to 350 days of load survey storage with a fast reading protocol to facilitate rapid transfer of data to minimise read times. Two communications ports are provided for local meter reading and an additional RS232 port under the terminal cover for AMR. PREMIER+ also includes up to 4 outputs and 3 inputs. PREMIER+ complies to IEC1036 and AS1284.5.





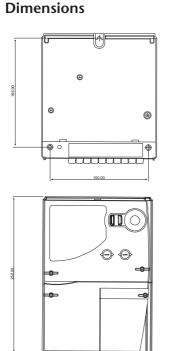
PREMIER RP features sophisticated intelligent revenue protection facilities for installations where theft and fraud are prevalent. The meter will detect and log tampers such as current reversal, CT open and short circuit, voltage and current imbalance and magnetic influence. PREMIER RP also offers load survey, time of use and maximum demand recording and includes options for up two communication ports. An optional inductive power up interface to allow reading when off power is also available.



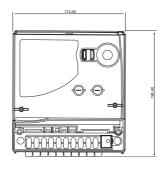
premier

The Premier offers:

- Full four quadrant metering
- 5 main energy registers
- Load survey recording of: 160 days of 1 channel 30 minute data 80 days of 2 channel 30 minute data 53 days of 3 channel 30 minute data 40 days of 4 channel 30 minute data 32 days of 5 channel 30 minute data N.B Optional 64k memory increases the data storage typically by a factor of three
- Load survey integration periods of 5, 15, 30 or 60 minutes
- 16 time of use and 8 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
- 9600 baud PACT communication port
- 9600 baud modem port under the terminal cover
- 1200 baud IEC1107 communication port
- Ofgem approved to IEC1036 and IEC687







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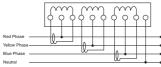


premier technical specification

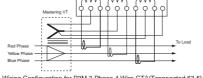
Premier Technical Specification

ELECTRICAL	Build options available for: CT Connected 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.	ACTIVITY INDICATOR Format Meter Constant	High intensity red LED, kWh consumed. 800 flashed per kWh for 230V 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 Storage Temperature	-10°C to +45°C -25°C to +70°C
CURRENT In Imax	5A 1A 6A 1.2A Additional configurations	Operating Humidity	Up to 95% non-condensing * requirements for specific countries available on request
	available on request.	TERMINALS	Two screws per conductor. Suitable for cable sizes from
BURDEN Current circuit Voltage circuit	ALL MODEL TYPES <0.5VA <0.5VA	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:	
METROLOGICAL Class	IEC 1036/687 Class 2.0S, 1.0S, 0.5S, 0.2S		
MECHANICAL Dimensions Enclosure Material Degree of Protection Flame Retardation	ALL MODEL TYPES W.176 X H.250 X D.67 mm ABS/Polycarbonate IP51 UL 94 V0		
Weight (approx.)	1 kg		
MAINS FREQUENCY	45-65Hz		
DATA RETENTION	10 years minimum (unpowered)		
DISPLAY Format Image Area	LCD 75 x 17mm	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.	
CLOCK & CALENDAR Normal Power Source RTC Backup Source Battery Life (typical) Min Shelf Life (typical)	Lithium battery or super cap. 10 years	COMMUNICATIONS Local Interrogation ports Remote Interrogation port Protocol	

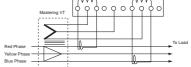
Wiring Diagram



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



1200-9600 baud



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

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



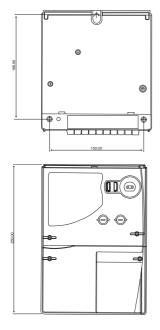
PRI House, Moorside Road, Winchester, Hampshire, SO23 7RX, England. Telephone: +44 (0) 1962 840048 Fax: +44 (0) 1962 841046 Internet: www.pri.co.uk Email: meters@pri.co.uk

premier+

The **Premier+** offers:

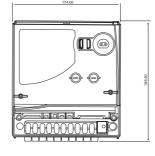
- Full four quadrant metering
- 5 main energy registers
- Load survey recording of:
 - 350 days of 1 channel 30 minute data 175 days of 2 channel 30 minute data 116 days of 3 channel 30 minute data 87 days of 4 channel 30 minute data 70 days of 5 channel 30 minute data
- Load survey integration periods of 15, 30 or 60 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
- 9600 baud ANSI communication port
- 9600 baud modem port under the terminal cover
- 1200 baud sealable PACT port
- Fast download of survey data 90 days of 1 channel 30 minute data in less than 30 seconds
- IP53 rated
- 10kV impulse withstand
- Type approved to IEC1036, IEC687 and AS1284 parts 5 and 9

Dimensions









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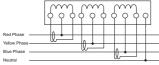


premier+ technical specification

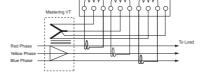
Premier+ Technical Specification

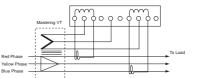
ELECTRICAL	 Wiring configurations CT Connected 240V or 230V phase to neutral, 3 element 3 phase 4 wire. CT/VT connected 100/110V phase to phase, 2 element 3 phase 3 wire. CT /VT connected 57.7/63.5V phase to neutral, 3 element 3 phase 4 wire, 2 phase 3 phase 4 wire, 1 phase 3 wire, 1 phase 2 wire. Additional configurations available on request. 	ACTIVITY INDICATOR Format Meter Constant	High intensity red LED, kwh consumed. 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 Storage Temperature Operating Humidity	-10°C to +60°C -25°C to +80°C Up to 95% non-condensing
In Imax	5A 1A 5A 20A 1.2A 6A Additional configurations available on request.	TERMINALS	Two screws per conductor. Suitable for cable sizes from 2.5mm ² to 5.0mm ²
BURDEN Current circuits Voltage circuits	ALL MODEL TYPES <0.5VA <0.5VA	PULSED INPUTS AND OUTPUTS Premier can be supplied in various hardware builds with up to 7 input/output channels, for example:	
METROLOGICAL IEC 1036/687, AS1284.5, AS1284.9 Class 2.0S, 1.0S, 0.5S		4 outputs, 0 inputs 4 outputs, 3 inputs The CLEM and tariff files determine the exact functional	
MECHANICAL Dimensions (approx.)	ALL MODEL TYPES W.176 X H.250 X D.67 mm	of inputs and outputs. The hardware-build determines which inputs and outputs are physically provided.	
Enclosure Material Degree of Protection Flame Retardation Weight (approx.)	ABS/Polycarbonate IP53 UL 94 V0 1 kg	PULSED INPUTS Up to two external parameters can be counted, with the capability to store values as load survey parameters Up to two external signals can be used to synchronise time-base or switch time-of-use registers. Inputs are rated for 9-40Vdc operation.	
MAINS FREQUENCY	45-65Hz		
DATA RETENTION	10 years minimum (unpowered)	PULSED OUTPUTS Up to four outputs can be used to indicate energy consumption, active rate, change of rate, end of deman	
DISPLAY Format	LCD	COMMUNICATIONS Local Interrogation ports Particular rate Protocol Protocol PACT at speeds from 1200-9600 baud	
Image Area CLOCK & CALENDAR Normal Power Source RTC Backup Source Battery Life (typical) Min. Shelf Life (typical)	Mains supply Lithium battery or super cap. 10 years		

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



PRI House, Moorside Road, Winchester, Hampshire, SO23 7RX, England. Telephone: +44 (0) 1962 840048 Fax: +44 (0) 1962 841046 Internet: www.pri.co.uk Email: meters@pri.co.uk

premier RP

The Premier RP offers:

- Full four quadrant metering
- 5 main energy registers and 8 main registers for true import/export metering
- Advance tamper detection features including:

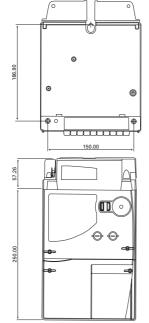
Missing voltage, invalid voltage, voltage unbalance, current reversal, current unbalance, current open circuit*, current short circuit* and abnormal magnetic influence *only available of 3p-4w meters

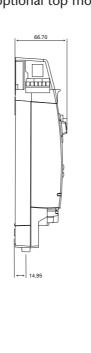
- Occurrence and restoration event logging with time and date stamp
- Snapshot taken of electrical values at time of occurrence and restoration including voltages, currents, powers factors

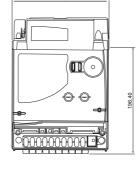


- 8 time of use and 2 maximum demand registers from the main energy registers, configurable for TOU and seasonal control
- Load Survey configurable for energy, voltages, currents, frequency or power factor
- Load Survey integration periods of 15, 30 and 60 minutes
- 1200 baud sealable PACT port
- Optional IEC1107 compatible communication port
- Inductively coupled external power pack for meter reading in the absence of supply (Build option)
- Up to 4 user configurable outputs via the optional top module
- Up to 2 user configurable inputs via the optional top module
- Type approved to IEC1036 and IEC687

Dimensions







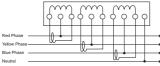


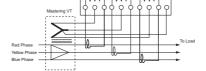
premier RP technical specification

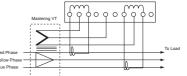
Premier RP Technical Specification

ELECTRICAL	Wiring configurations CT Connected 240V phase to neutral, 3 element 3 phase 4 wire.	ACTIVITY INDICATOR Format Meter Constant	High intensity red LED, kWh/kvarh/kVah Meter constant depends on mete scaling values (i.e. CT and VT ratio	
	CT/VT connected 100/110V phase to phase, 2 element 3 phase 3 wire.	EU DIRECTIVES	The product complies with 89/336/EEC Electromagnetic Compatibility Directive,	
	CT /VT connected 57.7/63.5V phase to neutral, 3 element 3 phase 4 wire. Additional configurations available on request.		amended by 92/31/EEC, by meeting BS EN 61036:1997.	
		ENVIRONMENTAL* Operating Temperature Storage Temperature Operating Humidity	-10°C to +45°C -25°C to +70°C Up to 95% non-condensing	
CURRENT In	5A 1A	operang manany	* requirements for specific countries available on request	
Imax	10A 2A Additional configurations available on request.	TERMINALS	Two screws per cable. Suitable for cable sizes from 2.5mm ² to 5.0mm ²	
BURDEN Current circuits Voltage circuits	ALL MODEL TYPES <0.5VA <2VA/Watt per phase	CLOCK & CALENDAR Normal Power Source	AR ce Mains supply	
METROLOGICAL	IEC 1036/687 Class 2.0S, 1.0S, 0.5S	RTC Backup Source Battery Life (typical) Min. Shelf Life (typical)	Lithium battery or super cap. 10 years 3 years	
MECHANICAL Dimensions (approx.)	ALL MODEL TYPES W.176 X H.250 X D.67	DISPLAY Format Image Area	LCD 75 x 17mm	
mm Enclosure Material Degree of Protection	ABS/Polycarbonate IP51 UL 94 V0	DATA RETENTION	10 years minimum (unpowered)	
Flame Retardation Weight (approx.)	1.65 kg (with optional top module)	COMMUNICATIONS Local Interrogation ports PACT and ANSI or 1107 ports		
MAINS FREQUENCY	45-55Hz			
Top Module Technic	cal Specification			
COMMUNICATIONS Remote Interrogation port Protocol	rogation port Optically isolated Up to fou RS232/RS485 port consump PACT at speeds from period, o		SED OUTPUTS to four outputs can be used to indicate energy sumption, active rate, change of rate, end of demand tod, or to indicate that a particular rate is active.	
INPUTS AND OUTPUTS Options available	1200-9600 baud 4 outputs and 1 input 3 outputs and 2 inputs	PULSED INPUTS Up to two inputs can either be counted and stored as register, survey data, used to synchronise the meter time-base or switch time-of-use registers. Inputs are rated for 9-40Vdc operation. Optional 230 VAC available.		

W







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

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



PRI House, Moorside Road, Winchester, Hampshire, SO23 7RX, England. Telephone: +44 (0) 1962 840048 Fax: +44 (0) 1962 841046 Internet: www.pri.co.uk Email: meters@pri.co.uk