

Digital Energy Meters

metator Solo

Single Phase Energy Meter



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Features

- AMR/AMM support
- Class 1, as per IEC62053-11 and -21
- Single Phase 2 wire operation
- Active Energy
- Line Voltage
- Line Current
- Line Frequency
- Scrolling Display
- Maximun Demand Intergration
- Real Time Clock
- Multi Tariff & Seasonal Data
- Event Storage
- Load Profile
- Programmable Billing Cycles
- RS232 Port
- IR Port
- Pulse Output on Terminal Block
- Reverse Current Detection



Mechanical Data

Overall dimensions	189mm X 130mm X 60mm
Fascia plate	Removable
Printing on fascia plate	As per customer requirement
Meter cover seal	Two sealable screws Factory sealed
Terminal cover seal	One sealable screw, Field sealable

Specifications		
Model variant	MS1440xA, MS1440xP	MS2440xA, MS2440xP
Main Parameters		
Key feature	Reverse current detection	Reverse and imbalance current detection
Display	LCD	
Class of operation	CL.1	
Standards	IEC62053-11 & IEC62053-21	
Wiring configuration	1 Phase, 2 wire	
Version A measured parameters (e.g. 14405A)	kWh, Vrms, Irms	
Rated voltage	220V/230V/240V AC	
Safe operating voltage	140V-280V	
Basic current	5A, 10A, 15A, 20A	
Maximum current	20A, 30A, 40A, 60A, 70A, 80A, 100A	
Rated frequency	50Hz or 60Hz	
Power factor	0.5 Lag to 0.8 Lead	
Circuit power consumption	As per IEC62053-21 and IEC62053-61	
LED indications	Calibration	
Starting current	0.4% of basic current	
Anti-tamper features	Reverse current	Reverse current, full or partial earthed load
Over current	Up to 120% of I _{max} for short time. Accuracy not guaranteed under overload conditions	
Over voltage	414V between Phase and Neutral	
Meter casing	Polycarbonate/ABS-PC	
Insulation	> 4KV	
Multi tariff	8 tariff registers	
Battery life	10 years	
RTC accuracy	As per IEC standard	
Terminal option	Optically isolated pulse output (SO/KYZ)	
Data storage	EEPROM/Flash	
Communication Interface	Optical, IEC62056-21	
Event logging	Tamper log, power on-off and more	
Meter reading software	Acroasis available on PC and Pocket PC	
Operating temperature	-20° C to +60° C	
Optional Parameters		
LED Indicator	Power, exceeded demand	
Profiling	Half hourly kWh	
Tariff tables	Up to 13 tariff tables can be defined	
Seasonal billing	Up to 12 seasons, 50 holidays and two weekend days	
Calendar type	Selectable option	
Power cut off relay	Can be used for supply disconnection by a command from IR port or remote command	
Demand control	Built in control relay available	
Reading Meter during absence of power	Available	
Remote meter reading	With this added option, the meter can be read from a distance	
Communication Interface	Isolated RS232 port or RF	

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