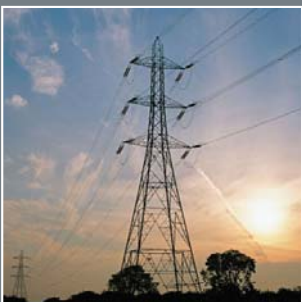


Digital Energy Meters

metator Solo

Single Phase Energy Meter



metator Solo

Single Phase Energy Meter

Features

- Class 1, as per IEC62053-21 and -61
- Single Phase 2 wire operation
- Active Energy
- Apparent Energy
- Line Voltage
- Line Current
- Line Frequency
- Power Factor
- Scrolling Display
- Rising Demand
- Maximum Demand Intergration
- Real Time Clock
- Multi-tariff & Seasonal Data
- Event Storage
- Load Profile
- Monthly Billing
- 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	MS14404A, MS14404P	MS24404A, MS24404P
Main Parameters		
Key feature	Reverse current detection	Reverse and imbalance current detection
Display	LCD	
Class of operation	1.0 & 2.0	
Standards	IEC62053-21	
Wiring configuration	1 Phase, 2 wire	
Version A measured parameters (e.g. 14404A)	KWH	
Version P measured parameters (e.g. 14404P)	KWH, KVah, Vrms, Irms, PF, Frequency	
Rated voltage	220/240 VAC	
Safe operating voltage	140V-280V	
Basic current	5A, 10A, 15A, 20A	
Maximum current	20A, 30A, 40A, 60A, 70A, 80A, 100A	
Rated frequency	50Hz/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	300V between Phase and Neutral for short time	
Meter casing	Polycarbonate/ABS-PC	
Insulation	> 4KV	
Multi tariff	8 tariff registers	
Battery life	5 years/10 years	
RTC accuracy	< 7min/year	
Terminal option	Optically isolated pulse output (SO)	
Data storage	EEPROM/Flash	
Communication port	Optical, IEC62056, RS232 option	
Event logging	Tamper log, power on-off and many more	
Meter reading software	Metator Acroasis compatible with PC and pocket PC	
Operating temperature	-20 to +60 deg C	
Optional Parameters		
LED indications	Power and reverse current	Power, earthed load & reverse current
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 (optional- denoted by suffix "S" e.g. MS14404AS)	
Over voltage protection	Up to 440V AC applied permanently between phase and neutral wires (optional)	
Calendars	Customized calendars upon request	
Power cut off relay	Can be used for supply disconnection by a command from IR port or remote command (optional)	

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