

# METRONIX MR METER

Three Phase Whole Current  
Electronic Energy Meter  
with Anti Tamper Features



## SPECIFICATION

<b>Connection</b>	3 Phase, 4 Wire	<b>Power Factor</b>	Zero Lag - Zero Lead
<b>Accuracy Class</b>	Active : 1.0 Reactive : 2.0	<b>Meter Constant</b>	1000 imp/kWh , kVarh
<b>Operating Temperature</b>	-20°C to 60°C	<b>Frequency Range</b>	50 Hz ± 5%
<b>Storage Temperature</b>	-25°C to 70°C	<b>Impulse Voltage Rating</b>	10 kV
<b>Humidity</b>	95 % RH	<b>Energy Verification</b>	LED Pulse, Output Pulse Terminal
<b>Dimension</b>	239.2mm x 117.6mm x 81.1mm	<b>High Voltage Rating</b>	4 kV
<b>Metering Technology</b>	Shunt and CT	<b>Surge Test</b>	4 kV
<b>Flame Retardation</b>	UL94-V	<b>Degree of Protection</b>	IP54 of IEC 62059
<b>Lifetime</b>	10 Years (Min)	<b>External Magnetic Effect</b>	> 0.5 Tesla
<b>Weight</b>	1.2KG	<b>MD Period</b>	30 / 60 Min
<b>Terminal Block</b>	BS 5685 Standard	<b>History Reading</b>	6 Month
<b>Voltage Range</b>	230V ± 20%	<b>Load Survey</b>	15 Min , 60 days
<b>Starting Current</b>	0.4 % Ib mA	<b>LCD Display</b>	9 Digital, IDS
<b>Nomina; Current</b>	10(100) A	<b>LED Indication</b>	3 ( Active, Reactive, Reverse )
<b>Power Consumption</b>	Voltage : < 1W, 4VA Current Circuit < 2VA	<b>TOU</b>	Max 8 time zone / 6 tariff for energy and demand

## CHARACTERISTIC

- Anti Tamper : Neutral Disturbance, Current Bypass, Current Reversal, Missing Neutral and Current Circuit Open
- Punishment mechanism for external magnetic disturbance
- Detection of missing potential, phase sequence reversal and AC/DC Magnetic (0.5 Tesla)
- Measurement of kWh, kVarh, PF, Vrms, Irms and Maximum Demand, Event recording of tamper
- Communication : Optical, RS232 and DLMS interface for meter reading
- Multi-Tariff : TOD metering for kWh/kVarh and MD with 6 time zones programmable
- History of billing readings for last six months
- One point software calibration for improving production efficiency
- Compliant with DLMS

## STANDARD METHODOLOGY

IEC 62052 - 11 : 2003  
IEC 62053 - 21 : 2003  
IEC 62053 - 23 : 2003  
BS 5685



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