National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	MEASUREMATIC INDIA, 9,14TH CROSS STREET, MAHARAJA NAGAR, TIRUNELVELI, TAMIL NADU, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2211	**Page No**	1 of 4
Validity	14/05/2023 to 13/05/2025	**Last Amended on**	02/11/2023

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using Three Phase Reference Standard with Three Phase Power Source by Comparison Method	10 mA to 100 A	0.025%
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy (Reactive) 3phase 3Wire @ 40V to 300V, 45Hz to 55Hz,10mA to 10 A, Lead/Lag (0.5 to 1)	Using Three Phase Reference Standard with Three Phase Power Source by Comparison Method	0.2 VArh to 5.2 kVArh	0.05%
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy (Active) 1 Phase /3 phase 4 Wire @40V to 300V, 45Hz to 55Hz ,10mA to 100 A, PF Lead/Lag (0.5 to 1)	Using Three Phase Reference Standard with Three Phase Power Source by Comparison Method	0.2 Wh to 90 kWh	0.05%
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy (Active) 1 Phase /3 phase 4 Wire @40V to 300V, 45Hz to 55Hz ,10mA to 100 A, PF Lead/Lag (0.5 to 1)	Using Three Phase Reference Standard with Three Phase Power Source by Comparison Method:	0.2 VArh to 90 kVArh	0.05%

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy (Active) 3phase, 3Wire @ 40V to 300V, 45Hz to 55Hz,10mA to 10 A, Lead/Lag (0.5 to 1)	Using Three Phase Reference Standard with Three Phase Power Source by Comparison Method	0.2 Wh to 5.2 kWh	0.05%
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @50Hz	Using Three Phase Reference Standard with Three Phase Power Source by Comparison Method	40 V to 300 V	0.025 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Frequency	Using Three Phase Reference Standard with Three Phase Power Source by Comparison Method	45 Hz to 55 Hz	0.030 Hz
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 40V to 300V ,10mA to 100 A, 50 Hz	Using Three Phase Reference Standard with Three Phase Power Source by Comparison Method	0.1 PF to 1 PF (Lead & Lag)	0.025 PF

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @50Hz	Using Three Phase Reference Standard with Three Phase Power Source by Comparison Method	10 mA to 100A	0.034%
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy (Active) 1 Phase /3 phase 4 Wire @40V to 300V, 45Hz to 55Hz ,10mA to 100 A, PF Lead/Lag (0.5 to 1)	Using Three Phase Reference Standard with Three Phase Power Source by Comparison Method:	0.2 Wh to 90 kWh	0.05 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy (Active) 3phase 3Wire @ 40V to 300V, 45Hz to 55Hz,10mA to 10 A, PF Lead/Lag (0.5 to 1)	Using Three Phase Reference Standard with Three Phase Power Source by Comparison Method	0.2 Wh to 5.2 kWh	0.05 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy (Reactive) 1 Phase /3 phase 4 Wire @40V to 300V, 45Hz to 55Hz ,10mA to 100 A, PF Lead/Lag (0.5 to 1)	Using Three Phase Reference Standard with Three Phase Power Source by Comparison Method	0.2 VArh to 90 kWh	0.05 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy (Reactive) 3phase 3Wire @ 40V to 300V, 45Hz to 55Hz,10mA to 10 A, PF Lead/Lag (0.5 to 1)	Using Three Phase Reference Standard with Three Phase Power Source by Comparison Method:	0.2 VArh to 5.2 kVarh	0.05 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage@50Hz	Using Three Phase Reference Standard with Three Phase Power Source by Comparison Method	40 V to 300 V	0.028 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Frequency	Using Three Phase Reference Standard with Three Phase Power Source by Comparison Method	45 Hz to 55 Hz	0.030 Hz
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 40V to 300V ,10mA to 100 A, 50Hz	Using Three Phase Reference Standard with Three Phase Power Source by Comparison Method	0.1 PF to 1 PF (Lead & Lag)	0.03 PF

*** CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k = 2.**