

NO: SAMM 230

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LABORATORY LOCATION/ CENTRAL OFFICE: 	Iskraemeco (M) Sdn. Bhd. Lot 115493 Kawasan Perindustrian Pengkalan Pengkalan Gate Tambahan 2 31500 Lahat, Perak , 31500, PERAK MALAYSIA
ACCREDITED SINCE :	26 MARCH 2025
FIELD(S) OF TESTING:	ELECTRICAL
FIELD(S) OF CALIBRATION:	ELECTRICAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

* The uncertainty covered by the CMC is expressed as the expanded uncertainty corresponding to a coverage probability of approximately 95 % and have a coverage factor of $k=2$ unless stated otherwise.

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Single Phase & Three Phase Static Energy Meters A) Active Energy (class 0.5, 1.0 & 2.0) b) Reactive Energy (class 2.0 & 3.0)	1. Limits of Error due to Variation of Current 2. Test of no load-load condition (Creeping Test) 3. Starting Test 4. Dial / Register Test (Meter Constant) Test and measurement at: Input Voltage: 60 V to 276 V Input Current: 0.01A to 100 A Power Factor: 0.5, 0.866 and 1.0 Frequency : 50 Hz	IEC 62053-21:2003 Clause 8.1 IEC 62053-21:2003 Clause 8.3.2 IEC 62053-21:2003 Clause 8.3.3 IEC 62053-21:2003 Clause 8.4 IEC 62053-21:2020 Clause 7.9 IEC 62053-21:2020 Clause 7.6 IEC 62053-21:2020 Clause 7.7 IEC 62053-21:2020 Clause 7.4 IEC 62053-23:2003 Clause 8.1 IEC 62053-23:2003 Clause 8.3.2 IEC 62053-23:2003 Clause 8.3.3 IEC 62053-23:2003 Clause 8.4 IEC 62053-23:2020 Clause 7.9 IEC 62053-23:2020 Clause 7.6 IEC 62053-23:2020 Clause 7.7 IEC 62053-23:2020 Clause 7.4 IEC 62052-11:2003 IEC 62052-11:2020
Single Phase & Three Phase Energy Meters (electromechanical) Active Energy Class 1 And 2	Type of Test a) Accuracy Test b) Register Test c) Creep Test d) Starting Current Test Test and measurement at: Input Voltage: 60 V to 276 V Input Current: 0.01A to 100 A Power Factor: 0.5, 0.866 and 1.0 Frequency : 50 Hz	IEC 62053-11:2003 Clause 8.1 IEC 62053-11:2003 Clause 8.4 IEC 62053-11:2003 Clause 8.3.1 IEC 62053-11:2003 Clause 8.3.2
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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
1) Single Phase & Three Phase Electromechanical Energy Meter active Energy Class 1 And 2 2) Single Phase & Three Phase Static Energy Meter a) Active Energy Class 0.5, 1.0 And 2.0 b) Reactive Energy Class 2.0 And 3.0	Energy measurement error at input level: Voltage: 60 V to 276 V Current: 0.01A to 100 A Power Factor: 0.5, 0.866 and 1.0 Frequency at 50 Hz	± 0.20 % of reading	Comparison with standard meter

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