Issue date: 18 May 2023
Valid Until: 28 October 2028

NO: SAMM 850

LABORATORY LOCATION/ CENTRAL OFFICE:	MeasuTech (M) Sdn. Bhd. No 64, Jalan Cantik 4 Taman Pelangi Indah 81800 Ulu Tiram, Johor , 81800, JOHOR MALAYSIA
ACCREDITED SINCE :	28 OCTOBER 2017
FIELD(S) OF CALIBRATION:	PRESSURE TORQUE HEAT & TEMPERATURE

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.**

CENTRAL LOCATION	MeasuTech (M) Sdn. Bhd. No 64, Jalan Cantik 4 Taman Pelangi Indah 81800 Ulu Tiram, Johor , 81800, Johor
FIELD(S) OF CALIBRATION :	PRESSURE, TORQUE, HEAT & TEMPERATURE

SCOPE OF CALIBRATION : PRESSURE

Instrument Calibrated/Measurement Parameter	**Range**	**Calibration and Measurement Capability Expressed as an Uncertainty (±)***	**Remarks**
Pressure Measuring Device Hydraulic	0 to 10000 psi	2.3 psi	Comparison with reference pressure gauge with reference to DKD-R 6-1, BS EN 837-1:1998, BS EN 837-2:1998 & BS EN 837-3:1998

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SCOPE OF CALIBRATION : TORQUE

Instrument Calibrated/Measurement Parameter	**Range**	**Calibration and Measurement Capability Expressed as an Uncertainty (±)***	**Remarks**
Torque Tools Device (exclude For Type 1 Class D And E, Type 2 D And F -" The Screw Driver Type)	30 N·m to 150 N·m 150 N·m to 1500 N·m	0.35 % of reading 0.26 % of reading	Calibrated using torque transducer based on ISO 6789-1:2017 & ISO 6789-2:2017

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SCOPE OF CALIBRATION : HEAT & TEMPERATURE

Instrument Calibrated/Measurement Parameter	**Range**	**Calibration and Measurement Capability Expressed as an Uncertainty (±)***	**Remarks**
Temperature Indicating Instrument With Sensor	0 °C to 400 °C	1.2°C	Comparison with PRT/Thermocouple probe in ice bath and calibration block with reference to ASTM E220-13 & ASTM E644-11
Temperature Recorder / Indicator A) Type J	-100 °C to 1200 °C	0.29 °C	Simulation using temperature calibrator and reference table ITS-90 based on EURAMET cg11/version 2.0 (03/2011)
Temperature Recorder / Indicator B) Type K	-100 °C to 1300°C	0.36 °C	Simulation using temperature calibrator and reference table ITS-90 based on EURAMET cg11/version 2.0 (03/2011)
Temperature Recorder / Indicator C) Type N	-100 °C to 1290 °C	0.27 °C	Simulation using temperature calibrator and reference table ITS-90 based on EURAMET cg11/version 2.0 (03/2011)
Temperature Recorder / Indicator D) Type E	-100 °C to 980 °C	0.24 °C	Simulation using temperature calibrator and reference table ITS-90 based on EURAMET cg11/version 2.0 (03/2011)
Temperature Recorder / Indicator E) Type T	0 °C to 390°C	0.34 °C	Simulation using temperature calibrator and reference table ITS-90 based on EURAMET cg11/version 2.0 (03/2011)

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (±)*	Remarks
Temperature Recorder / Indicator F) Type R	0 °C to 1700 °C	0.71 °C	Simulation using temperature calibrator and reference table ITS-90 based on EURAMET cg11/version 2.0 (03/2011)
Temperature Recorder / Indicator G) Type S	0 °C to 1700 °C	0.81 °C	Simulation using temperature calibrator and reference table ITS-90 based on EURAMET cg11/version 2.0 (03/2011)
Temperature Recorder / Indicator H) Type B	600 °C to 1800 °C	0.63 °C	Simulation using temperature calibrator and reference table ITS-90 based on EURAMET cg11/version 2.0 (03/2011)
Temperature Recorder / Indicator I) Rtd (pt100)	-100 °C to 800 °C	0.21 °C	Simulation using temperature calibrator and reference table ITS-90 based on EURAMET cg11/version 2.0 (03/2011)