Issue date: 06 April 2025
Valid Until: -

NO: SAMM 844

LABORATORY LOCATION/ CENTRAL OFFICE:	KWMRSB Laboratory, KWM Resources Sdn. Bhd. PT-15970, Tingkat Atas, Taman Mak Chili Murni-2, Kg. Mak Chili Paya, 24000 Kemaman, Terengganu , 24000, TERENGGANU MALAYSIA
ACCREDITED SINCE :	06 APRIL 2025
FIELD(S) OF CALIBRATION:	PRESSURE 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	KWMRSB Laboratory, KWM Resources Sdn. Bhd. PT-15970, Tingkat Atas, Taman Mak Chili Murni-2, Kg. Mak Chili Paya, 24000 Kemaman, Terengganu , 24000, Terengganu
FIELD(S) OF CALIBRATION :	PRESSURE, HEAT & TEMPERATURE

SCOPE OF CALIBRATION : PRESSURE

Instrument Calibrated/Measurement Parameter	**Range**	**Calibration and Measurement Capability Expressed as an Uncertainty (±)***	**Remarks**
Device	0 to 16000 psi	None	Dead Weight
	0 to 16000 psi	None	Tester with
	0 to 16000 psi	None	reference to
	0 to 16000 psi	None	BS EN 837-1:1998
	0 to 16000 psi	None	BS EN 837-2:1998
	0 to 16000 psi	None	BS EN 837-3:1998
	None	None	pressure calibrator

Instrument Calibrated/Measurement Parameter	**Range**	**Calibration and Measurement Capability Expressed as an Uncertainty (±)***	**Remarks**
	-500Pa to +500PaNone -500Pa to +500Pa	-500Pa to +500Pa	comparison method
	-10000Pa to +10000Pa10Pa -10000Pa to +10000Pa	-10000Pa to +10000Pa	with reference to
	-10000Pa to +10000PaNone -10000Pa to +10000Pa	-10000Pa to +10000Pa	EURAMET Guide17
	None	None	
	None	None	
Pressure Gauge	0 to 15000 psi	0.05 % of reading	Calibrated using
	0 to 15000 psi	None	Digital Pressure
	0 to 15000 psi	None	Gauge.
	0 psi to 200 psi 200 psi to 500 psi 500 psi to 1500 psi 1500 psi to 2500 psi 2500 psi to 5000 psi 5000 psi to 10000 psi	0.24 psi 1.2 psi 3.2 psi 12 psi 29 psi 58 psi	Generation using calibrator p/no.: Pressurement M2800-3 Buddenberg 380-H FLUKE P3125-3 based on reference BS EN 837-1 (1998)
Pressure Measuring	0 to 16000 psi	0.03 % of reading	Calibrated using
	None	None	Calibrated using
	-500Pa to +500Pa2Pa -500Pa to +500Pa	-500Pa to +500Pa	Calibration by
	None	None	
	Up to 600 bar	None	on 837-1:1998, BS
	None	None	
	None	None	
Temperature Enclosure	0-150	1.2	Calibrated using
	0-150	None	digital multichannel
	0-150	None	temperature
	0-150	None	recorder and
	0-150	None	thermocouples with
	0-150	None	refence to AS 2853
	0-150	None	And TLAS G20

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SCOPE OF CALIBRATION : TEMPERATURE

Instrument Calibrated/Measurement Parameter	**Range**	**Calibration and Measurement Capability Expressed as an Uncertainty (±)***	**Remarks**
Temperature Sensor	0 to 250	0.07	Calibrated using
	250 to 400	0.15	PRT and Dry Block
	400 to 650	0.17	by comparison
	400 to 650	None	method
	to 250 °C	0.3 °C	Comparison with
	to 250 °C	0.3 °C	Comparison with
	o°c	0.64 °C	Comparison with
	0°C to 420 °C	0.18 °C	Comparison method using SPRT and
	0°C to 420 °C	0.18 °C	Comparison method using SPRT and
	0°C to 420 °C	0.51 °C	Comparison method using SPRT and
	200 °C to 400 °C	0.33 °C	
	400 °C to 600 °C 600 °C to 1200 °C	0.75 °C 2.7 °C	Comparison with reference Pt100/Type R in
	400 °C to 600 °C 600 °C to 1200 °C	None	liquid bath and
	30 °C to 200 °C 200 °C to 400 °C	0.27 °C 0.44 °C	Comparison with reference Pt100 in temperature block calibrator