

Schedule

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LABORATORY LOCATION/ CENTRAL OFFICE:	Petrocal (M) Sdn. Bhd. No. 6, Jalan Bulan U5/167, Seksyen U5 Bandar Pinggiran Subang 40150 Shah Alam Selangor , 40150, SELANGOR MALAYSIA
	
ACCREDITED SINCE :	06 APRIL 2025
FIELD(S) OF CALIBRATION:	ELECTRICAL PRESSURE TEMPERATURE TORQUE

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	Petrocal (M) Sdn. Bhd. No. 6, Jalan Bulan U5/167, Seksyen U5 Bandar Pinggiran Subang 40150 Shah Alam Selangor , 40150, Selangor
FIELD(S) OF CALIBRATION :	ELECTRICAL, PRESSURE, HEAT & TEMPERATURE, TORQUE

SCOPE OF CALIBRATION : ELECTRICAL

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
(gate, Globe, Check, Ball,	None	B16.34	
(gate, Globe, Check, Ball, Butterfly, Parallel Side,	Seat leakage Test	B16.34 API 598, clause ASME	

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Ac Current	See Matrix B	See Matrix B	Direct measurement using
	See Matrix D	See Matrix D	Direct Measurement using Fluke
	100 yA	None	
	10 Hz to 1 kHz 1 kHz to 5 kHz	0.0097 pA 0.016 pA	Direct measurement using Digital Multimeter Datron 1281
	2.2Ato11A 45 Hz to 65 Hz	1.00mA/A	Rev 01 using Direct Method
	65 Hz to 500 Hz	None	
	500 Hz to 1 kHz	None	
	11 A to 550 A (current coil) 45 Hz to 65 Hz 65 Hz to 440 Hz	3.4mA/A	Calibrated according to procedure LCP01705, Rev 01 using Direct Method
	100A	None	Calibrated according to
	1mAto3A	See Matrix D	procedure LCP01703, Rev 01 using Direct
	1mAto3A	None	Method
	3Ato 100A	None	Calibrated according to
	45 Hz to 65 Hz	2.4mA/A	procedure LCP01706, Rev 02 using Method
	45 Hz to 65 Hz	None	Method
	50 to3A	None	
	3Ato 100A	None	Calibrated according to
	45 Hz to 65 Hz	2.5mA/A	procedure LCP01706, Rev 04 using Direct
	45 Hz to 65 Hz	None	Method
	45 Hz to 65 Hz	None	
Ac Voltage	See Matrix A	See Matrix A	Direct measurement using
	See Matrix C	See Matrix C	Direct Measurement using Fluke
	10 kHz to 20 kHz	1.0mV/V	Method
	330 V to 1020 V	None	
	45 Hz to 1 kHz	0.67	
	1 kHz to 5 kHz	2.3mV/V	
	5 kHz to 10 kHz	2.3mV/V	
	1 mV to 750 V	See Matrix C	Calibrated according to procedure LCP01703, Rev 01 using Direct Method

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
	750 V to 1000 V 45 Hz to 1 kHz 1 kHz to 10 kHz	9.2mV/V 9.2mV/V	Calibrated according to procedure LCP01703, Rev 01 using Direct Method
	45 Hz to 65 Hz	35	procedure LCP01707, Rev 01 using Direct
	45 Hz to 65 Hz	None	Method
	45 Hz to 65 Hz	None	
	1 mA to 10 mA	0.90 mA/A	Calibrated according to
	10 mA to 100 mA	0.77	procedure LCP01703 &
	0.045 kHz to 1 kHz	9.2mV/V	using Direct Method
	1 kHz to 10 kHz	9.2mV/V	
	to 40 kV 45 Hz to 65 Hz	62 mV/V	Calibrated according to procedure LCP01707, Rev 01
	to 40 kV 45 Hz to 65 Hz	None	using Direct Method
Butterfly, Parallel Side,	Seat leakage Test	API 598, clause 6.3:0ct2016, ASME	
Calibrator	420 °C to 1200 °C	2.8 °C	Sensor, Datalogger
	420 °C to 1200 °C	None	
	None	None	
Calibrators	0 °C to 400 °C	0.18 °C	
Capacitance	OnF to 1 nF	2.3%of rdg+0.029nF	Direct measurement using
	0.1nF to 1 nF	rdg+0.014nF	Direct Measurement using Fluke
	110 nF to 0.330 uF	4.0 4.0	
	0.330 UF to 1.1 uF		
	1.1 uF to 3.3 UF	5.1	
	3.3 UF to 11	None	
	11 UF to 33 UF 33 UF to 110	5.7 mF /F 6.8 mF /F	
	110 UF to 330 UF	9.1	
	330 UF to 1.1 mF	12 mF/ F	
Dbb And Plug Valves)	0.01 Hz to 12 kHz	0.062 mHz / Hz	
	None	B16.34	
	None	B16.34	
Dc Current	0 to 100 pA 0.1 mAt01mA	0.058%of 0.035%of rdg+0.0004mA	Direct measurement using fluke 8846A
	50 to 500 pA	0.06%of rdg+0.21	Direct Measurement using Fluke

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	0 to 100 pV 0 to 0 to 10 mV 0 to 100 mV 0 to 1V 0 to 10 V 0 to 100 V 0 to 1000 V	None	Direct Measurement Method using Digital Multimeter Datron 1281 > Inoperative
	0 to 100 pA 0 to 1mA 0 to 10 mA 0 to 100 mA 0 to 1A	0.013 pA 0.00013 mA 0.0016 mA 0.028 mA 0.000028 A	\ Generation using calibrator model: > Inoperative Fluke 5700A
	0 mA to 3.3 mA 3.3 mA to 33 mA 33 mA to 0.330 A 0.330 A 2.2A to 11A	0.17 0.13 0.15 mA/A 0.37 mA/A 0.71 mA/A	Calibrated according to procedure LCP01701, Rev 01 using Direct Method
	0 mA to 3.3 mA 3.3 mA to 33 mA 33 mA to 0.330 A 0.330 A 2.2A to 11A	None	Calibrated according to
	11 A to 550 A (current coil)	None	procedure LCP01705, Rev 01 using Direct
	11 A to 550 A (current coil)	None	Method
	0.029 mA to 330 mA	See Matrix B	
	0.33 A to 2.2A	None	
	10 Hz to 45 Hz	2.5mA/A	
	45 Hz to 1 kHz 1 kHz to 5 kHz	None	Calibrated according to procedure LCP01701,
	100 mA to 1A 1A to 3A	1.3mA/A	LCP01715, Rev 01 using Direct Method
	100 mA to 1A 1A to 3A	None	Calibrated according to
	100A	None	procedure LCP01706,
	100A	None	Rev 02 using V/I Method
	0 mA to 24 mA	0.95 mA/A	LCP01701, Rev 01
	0 mA to 24 mA	None	using Direct Method
	0 mA to 24 mA	12mQ/Q	
	10 Q to 100 Q	8.8mQ/Q	
	100 mA to 1A 1A to 3A	1.3mA/A 1.6mA/A	using Direct Method
	100 mA to 1A 1A to 3A	None	Calibrated according to
	100A	2.5mA/A	procedure LCP01706, Rev 04 using Direct
	100A	None	Method
	100A	None	Calibrated according to
	100A	None	procedure LCP01703,

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Dc Voltage	50 to 3A	See Matrix F	Rev 01 using Direct
	0 to 100 mV	0.004% of rdg + 0.004 mV	Direct measurement using
	0 to 50 mV	0.05% of rdg + 0.005 mV	Direct Measurement using Fluke
	30 V to 329 V	0.066 mV /V	
	329 V to 1020 V	0.066	Calibrated
	1 mV to 33 V	See Matrix A	Calibrated
	1 mV to 33 V	None	according to
	33 V to 330 V	None	procedure
	45 Hz to 1 kHz	0.6 mV/V	LCP01701, Rev 01
	1 kHz to 10 kHz	0.92 mV/V	using Direct
	1 mV to 100 mV 100 mV to 1V 1V to 10V 10 V to 100 V 100 V to 1000 V	0.098 mV /V 0.054 0.046 0.059 0.064 mV /V	Calibrated according to procedure LCP01703 & LCP01715, Rev 01 using Direct Method
	1 kV to 30 kV	23 mV/V	Calibrated according to
	1 kV to 30 kV	None	procedure LCP01707,
	1 kV to 30 kV	None	Rev 01 using Direct
	1 kV to 30 kV	None	Method
	0V to	0.58	Calibrated according to procedure
	1 mV to 100 mV 100 mV to 1 V 1V to 10V 10 V to 100 V 100 V to 1000 V 1 kV to 40 kV	0.17 mV/V 0.10 mV/V 0.096 mV /V 0.10 mV/V 0.11 mV/V 23 mV/V	Calibrated according to procedure LCP01703 & LCP01715, Rev 01 using Direct Method
	1 mV to 100 mV 100 mV to 1 V 1V to 10V 10 V to 100 V 100 V to 1000 V 1 kV to 40 kV	0.17 mV/V 0.10 mV/V 0.096 mV /V 0.10 mV/V 0.11 mV/V 23 mV/V	Calibrated according
	1 mV to 100 mV 100 mV to 1 V 1V to 10V 10 V to 100 V 100 V to 1000 V 1 kV to 40 kV	None	to procedure
	1 mV to 100 mV 100 mV to 1 V 1V to 10V 10 V to 100 V 100 V to 1000 V 1 kV to 40 kV	None	LCP01707, Rev 01
	1 mV to 100 mV 100 mV to 1 V 1V to 10V 10 V to 100 V 100 V to 1000 V 1 kV to 40 kV	None	using Direct Method
	10 mV to 750 V	See Matrix E	Calibrated according

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
	10 mV to 750 V	None	to procedure
	750 V to 1000 V	None	LCP01703, Rev 01
Devices	0 °C to 630 °C	0.48 °C	
Enclosure @ 30°C	None	None	Datalogger with reference to
Frequency	3 5 Hz	rdg+0.00002Hz	
	1 Hz to 100 Hz	rdg+0.003Hz	Direct Measurement using Fluke
	12 kHz to 100 kHz	0.057 mHz / Hz	
	1 Hz to 40 Hz	0.62 mHz/ Hz	using Direct Method
	1 kHz to 10 kHz	1.4 mHz/Hz	to procedure LCP01701, Rev 01 using Direct Method
	5 Hz to 10Hz	0.58 mHz/ Hz	
Generating / Sourcing	None	None	
	None	None	
Hand Torque Tools	0.3 N.m	3.0% of reading	Calibration using torque transducers
	2.N.m to 1500 N.m	1.0%	
	2.N.m to 1500 N.m	None	2. The CMC quoted is the relative expanded
	2.N.m to 1500 N.m	None	uncertainty at each
	2.N.m to 1500 N.m	None	calibration point
	2.N.m to 1500 N.m	None	
Heat Enclosure	0 °C to 250 °C	0.8 °C	Datalogger with reference to
Humidity Controlled	20 %RH to 95%RH	5 %RH	Calibration using TC sensors and
Hydraulic (oil & Water)	0 bar to 700 bar	0.02 % of rdg + 0.11 bar	Calibration using Dead Weight Tester
	0 bar to 400 bar	0.7 bar	Calibration using Digital
Indicating Devices	0 °C to 630 °C	0.15 °C	calibrator.
Indicator	420 °C to 650 °C	2.7°C	
	None	None	
Instrument	None	None	
	None	None	
	None	None	Measuring
Isolation Valve	Shell Test	API 598, clause 6.3:Oct2016, ASME	
	Shell Test	API 598, clause ASME	
Pneumatic	0 bar to 10 bar	0.007 bar	calibrator.
	0 bar to 10 bar	0.01 bar	calibrator

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	-0.9 bar to 0 bar 0 bar to 0.07 bar 0 bar to 0.7 bar 0 bar to 7 bar abs 0 bar to 7 bar 0 bar to 20 bar	0.008 bar 0.000007 bar 0.00012 bar 0.0028 bar abs 0.003 bar 0.008 bar	Calibrated using reference pressure calibrator by comparison method according to MSA Test Method 1 and 2
	0 bar to 30 bar	0.011 bar	-2022
	-0.9 bar to 0 bar 0 bar to 0.07 bar 0 bar to 0.7 bar 0 bar to 7 bar abs 0 bar to 7 bar 0 bar to 20 bar 0 bar to 30 bar	0.008 bar 0.000057 bar 0.00058 bar 0.0063 bar abs 0.0064 bar 0.018 bar 0.058 bar	Calibrated using reference pressure calibrator by comparison method according to MSA Test Method 1 and 2 - 2022
	70 mbar to 700 mbar 700 mbar to 7000 mbar 7 bar to 30 bar	0.16 mbar 1.9 mbar 0.009 bar	Calibrate by using reference gauge based on AS 1349 (1986)
	0 bar to 300 bar	0.09 bar	
	70 mbar to 700 mbar 700 mbar to 7000 mbar 7 bar to 30 bar	0.16 mbar 1.9 mbar 0.009 bar	Calibrate by using reference gauge based on AS 1349
	0 bar to 300 bar	0.09 bar	-1986
Pressure Measuring Devices	None	None	
	None	None	
Pt100(385)	None	None	
	400 °C to 600 °C	0.28 °C	
	None	None	
	0 °C to 400 °C	0.59 °C	calibrator.
Pt100(3916)	-200 °C to 0 °C	0.29 °C	
	-200 °C to 150 °C	0.16 °C	
	-200 °C to 0 °C	0.36 °C	
	-200 °C to 150 °C	0.36 °C	
Pt100(3926)	-200 °C to 0 °C	0.08 °C	
	-200 °C to 0 °C	0.16 °C	
	-200 °C to 0 °C	0.25 °C	
	-200 °C to 0 °C	0.36 °C	
Relief Valve	Pop Pressure Test	API 576 section 6.2.9:Nov2009,	
	Pop Pressure Test	API 576 section 6.2.9:Nov2009,	
Resistance	10 to 100	rdg+0.00350	Direct measurement using
	0.001 Q to 50 O	None	Direct Measurement using Fluke

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
	1 kQ to 10 kQ 10 kQ to 100 kQ	0.13 mQ/Q 0.13 mQ/Q	Calibrated according
	100 kQ to 1 MQ	0.13 mQ/Q	to procedure
	1 MQ to 10 MQ	0.51 mQ/Q	LCP01703, Rev 01
	10 MQ to 100 MQ	9.4mQ/Q	using Direct Method
	10 kQ to 100 kQ 100 kQ to 1 MQ	0.13mQ/Q	Calibrated according to
	1 MQ to 10 MQ	0.47 mQ/Q	procedure LCP01703,
	10 MQ to 100 MQ	9.4mQ/Q	Rev 01 using Direct Method
	3 Hz to 5 Hz	1.2 mHz/ Hz	Rev 01 using Direct Method
Temperature	-200 °C to 0 °C	0.08 °C	Calibration using electrical simulator
	-200 °C to 0 °C	0.16 °C	
Temperature Block	-80 °C to 420 °C	0.21 °C	Calibration using PRT probe, TC
	0 °C to 420 °C	0.5 °C	sensors and Datalogger
Temperature Calibrators	-200 °C to 0 °C	0.36 °C	Calibration using electrical simulator
	Temperature Calibrators	Temperature Calibrators	By Electrical Measurement Using Temperature Calibrator and ITS 90 Tables
Temperature Indicating	-200 °C to 0 °C	0.25 °C	calibrator.
Temperature Sensor	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
Temperature Sensor With	0°C to 420 °C	0.51 °C	Thermocouple type S
Type E	-250 °C to 1000 °C	0.32 °C	
	-250 °C to 1000 °C	0.32 °C	

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
	-250 °C to 1000 °C	0.80 °C	
	-250 °C to 1000 °C	1.6 °C	
	-250 °C to 1000 °C	0.74 °C	By Electrical Simulation Using Temperature Calibrator and ITS 90 Tables
	-250 °C to 1000 °C	1.5°C	By Electrical Measurement Using Temperature Calibrator and ITS 90 Tables
	-250 °C to 1000 °C	1.0°C	By Electrical Simulation Using Temperature Calibrator and ITS 90 Tables
Type J	-210 °C to 1200 °C	0.32 °C	
	-210 °C to 1200 °C	0.32 °C	
	-210 °C to 1200 °C	0.41 °C	
	-210 °C to 1200 °C	0.73 °C	
	-210 °C to 1200 °C	0.47 °C	By Electrical Simulation Using Temperature Calibrator and ITS 90 Tables
	-210 °C to 1200 °C	0.77 °C	By Electrical Measurement Using Temperature Calibrator and ITS 90 Tables
	-210 °C to 1200 °C	0.84 °C	By Electrical Simulation Using Temperature Calibrator and ITS 90 Tables
Type K	-210 °C to 1370 °C	0.47 °C	
	-210 °C to 1370 °C	0.47 °C	
	-210 °C to 1370 °C	0.56 °C	calibrator.
	-210 °C to 1370 °C	0.87 °C	calibrator.
	-200 °C to 1370°C	0.67 °C	By Electrical Simulation Using Temperature Calibrator and ITS 90 Tables

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
	-200 °C to 1370 °C	0.93 °C	By Electrical Measurement Using Temperature Calibrator and ITS 90 Tables
	-200 °C to 1370 °C	0.96 °C	By Electrical Simulation Using Temperature Calibrator and ITS 90 Tables
Type N	-200 °C to 1300 °C	0.47 °C	
	-200 °C to 1300 °C	0.47 °C	
	-200 °C to 1300 °C	0.76 °C	
	-200 °C to 1300 °C	1.2 °C	
	-200 °C to 1200 °C	0.84 °C	By Electrical Simulation Using Temperature Calibrator and ITS 90 Tables
	-200 °C to 1200 °C	1.2 °C	By Electrical Measurement Using Temperature Calibrator and ITS 90 Tables
	-200 °C to 1200 °C	1.1 °C	By Electrical Simulation Using Temperature Calibrator and ITS 90 Tables
Type R	-20 °C to 1760 °C	None	
	-20 °C to 1760 °C	0.7 °C	
	-20 °C to 1760 °C	None	
	-20 °C to 1760 °C	None	
	0 °C to 1750 °C	1.5 °C	By Electrical Simulation Using Temperature Calibrator and ITS 90 Tables
	0 °C to 1750 °C	2.8 °C	By Electrical Measurement Using Temperature Calibrator and ITS 90 Tables

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
	0 °C to 1750 °C	1.7°C	By Electrical Simulation Using Temperature Calibrator and ITS 90 Tables
Type S	-20 °C to 1760 °C	0.5 °C	
	-20 °C to 1760 °C	0.5 °C	
	-20 °C to 1760 °C	None	
	-20 °C to 1760 °C	2.7°C	
	0 °C to 1750 °C	1.5°C	By Electrical Simulation Using Temperature Calibrator and ITS 90 Tables
	0 °C to 1750 °C	2.8 °C	By Electrical Measurement Using Temperature Calibrator and ITS 90 Tables
	0 °C to 1750 °C	1.6°C	By Electrical Simulation Using Temperature Calibrator and ITS 90 Tables
Type T	-250 °C to 400 °C	0.7 °C	
	-250 °C to 400 °C	None	
	-250 °C to 400 °C	1.2°C	
	-250 °C to 400 °C	2.0°C	
	-200 °C to -100 °C -100 °C to 400 °C	0.2 °C 0.1 °C	By electrical measurement using multimeter
	-200 °C to -100 °C -100 °C to 400 °C	0.6 °C 0.3 °C	By electrical simulation using calibrator
	-200 °C to -100 °C -100 °C to 400 °C	0.6 °C 0.3 °C	By electrical simulation using calibrator
	-200 °C to -100 °C -100 °C to 400 °C	0.6 °C 0.3 °C	By electrical simulation using calibrator
	-250 °C to 400 °C	1.1°C	By Electrical Simulation Using Temperature Calibrator and ITS 90 Tables

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	-250 °C to 400 °C	2.0 °C	By Electrical Measurement Using Temperature Calibrator and ITS 90 Tables
	-250 °C to 400 °C	1.3°C	By Electrical Simulation Using Temperature Calibrator and ITS 90 Tables
Vacuum	0 bar to -0.95 bar	0.003 bar	Calibration using pressure
	0 bar to -0.95 bar	0.003 bar	Calibration using pressure
With Indicator	420 °C to 650 °C	0.20 °C	Thermocouple type S
Without Indicator	420 °C to 650 °C	0.20 °C	Thermocouple type S and DMM.
	420 °C to 650 °C	2.7°C	Thermocouple type S and DMM.

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SCOPE OF CALIBRATION : PRESSURE

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SCOPE OF CALIBRATION : TEMPERATURE

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