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LABORATORY LOCATION/ CENTRAL OFFICE: 	CT Services (M) Sdn. Bhd. No. 17, Jalan MJ 16, Taman Industri Meranti Jaya 47120 Puchong Selangor , 47120, SELANGOR MALAYSIA
ACCREDITED SINCE :	05 AUGUST 2015
FIELD(S) OF CALIBRATION:	ELECTRICAL FORCE MASS 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	CT Services (M) Sdn. Bhd. No. 17, Jalan MJ 16, Taman Industri Meranti Jaya 47120 Puchong Selangor , 47120, Selangor
FIELD(S) OF CALIBRATION :	ELECTRICAL, FORCE, MASS, PRESSURE, HEAT & TEMPERATURE, TORQUE

SCOPE OF CALIBRATION : ELECTRICAL

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
(tension & Compression)	5 tonf to 20 tonf	0.22 tonf	using hydraulic
1.0 Dc Voltage	(+ Polarity)	None	
	(+ Polarity)	None	
10.0 Dc Power	Up to 11 kW	4.8 mW/W + 5.3 mW	
	Up to 11 kW	4.8 mW/W + 5.3 mW	
11.0 Ac Power	@ 45 Hz to 65 Hz	None	
	@ 45 Hz to 65 Hz	None	
12.0 Resistance	0Q to 100 10 to 100 100 to 1 kQ 1 kQ to 10 kO 10 to 100 100 kQ to 1 MQ 1 MQ to 10 MQ	10 + 0.13 ma 20 + 0.26 ma 10 + 2.2 mQ 14 pO/O + 10 mQ 20 +0.14.0 20 0.84 + 20 O	Calibrated by using Agilent 3458A multimeter
	0Q to 100	10 + 0.13 ma	Calibrated by
13.0 Dc Voltage	0 mV to 100 mV	30 + 55	
	0 mV to 100 mV	30 + 55	Calibrated by
14.0 Dc Current	0 to 100 pA	0.28 nA/A + 30 nA	Calibrated by
14.0 Dc High Voltage	OkV to 2 kV	0.11 mV/V + 0.24 kV	Calibrated by
15.0 Ac Current	@ 45 Hz to 65 Hz	None	
15.0 Dc Current	0 WA to 100 pA	0.28 nA/A + 30 nA	Calibrated by
16.0 Ac Current	0 to 100 pA	0.51 mA/A + 69 nA	
16.0 Ac Voltage	1 mV to 700V	See Matrix C	
17.0 Ac Voltage	1 mV to 700V	See Matrix C	
17.0 Frequency	1 Hz to 40 Hz	0.51 + 3.0 mHz	
18.0 Ac High Voltage	@50 Hz	None	
19.0 Frequency	1 Hz to 40 Hz	0.51 + 3.0 mHz	Calibrated by
2.0 Dc Current	0 UA to 329.999 PA	170 + 26 nA	Calibrated by
	0 UA to 329.999 PA	170 + 26 nA	
3.0 Ac Voltage	1 mV to 1000 V	See Matrix A	
	1 mV to 1000 V	See Matrix A	
4.0 Ac Current	29.00 UA to 20.5A	See Matrix B	
	29.00 UA to 20.5A	See Matrix B	
5.0 Capacitance	@ 1kHz	None	
	@ 1kHz	None	
6.0 Miliohm	10 mQ	0.59 mQ	Calibrated by
	10 mQ	0.59 mQ	Calibrated by
7.0 Resistance	0 Q to 10.9999 O	40 pQ/O	Calibrated by
	0 to 10.9999 O	40 pQ/O	Calibrated by
8.0 High Voltage	10	11 kQ	Calibrated by
8.0 High Voltage Resistance (discrete Values)	10 MO 20 50 MO	11 kQ 13 15	Calibrated by using resistance box
9.0 Frequency	0.01 Hz to 119.99 Hz	10 nHz/Hz + 5.0 mHz	Calibrated by
	0.01 Hz to 119.99 Hz	10 nHz/Hz + 5.0 mHz	Calibrated by
@ 23°C	None	None	general reference to AS 2853-1986
A) Air Temperature	-20 °C to 10 °C	0.24 °C	Comparison with
A) Type J	-100 °C to 1200 °C	0.23 °C	Electrical

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
	-100 °C to 1200 °C	0.11 °C	Electrical
	-100 °C to 1200 °C	0.23 °C	Electrical
	-100 °C to 1200 °C	0.23 °C	Electrical
A) Type K,j,n,e &t	-80 °C to -40 °C -40 °C to 150 °C	0.95 °C 0.95 °C	Comparison with P /
	150 °C to 300 °C	1.1 °C	PRT /
Absolute	0.05 bar a to 6 bara	0.19	Calibrate using
	0.05 bar to 6 bara	0.19 mbara	Calibrate using
B) Humidity @	25 % r.h. to 95 % r.h	2.2 %r.h	BS 1339-3:2004
B) Type K	-100 °C to 1372 °C	0.31 °C	simulation using temperature
	-100 °C to 1372 °C	0.14 °C	using
	-100 °C to 1372 °C	0.31 °C	simulation using temperature
	-100 °C to 1372 °C	0.31 °C	temperature
B) Typer&s	0 °C to 150 °C	3.6 °C	with reference to
	0 °C to 150 °C	3.6 °C	ASTM E220-13
Balance	Up to 300 g	0.6 mg	Calibrate using
	Up to 200 g	0.02 g	Calibrated using
	Up to 3000 g	0.4g	Standard Weight
	Up to 6000 g	0.6g	with Reference
	Up to 30 kg	3.19	to Euramet cg-
	Up to 150 kg	0.4kg	18 Version 4.0
	Up to 50g	0.0002 g	Calibrated using
	Up to 250 g	0.0004 g	standard weights class E2
	Up to 200 g 200 g to 1000 g 1 kg to 5kg 5 kg to 10 kg 10 kg to 20 kg 20 kg to 50 kg 50 kg to 100 kg 100 kg to 300 kg	0.7 mg 20 mg 0.10g 0.2g 1g 3g 0.006 kg 0.04 kg	Calibrated by using standard weights
	Up to 200 g 200 g to 1000 g 1 kg to 5kg 5 kg to 10 kg 10 kg to 20 kg 20 kg to 50 kg 50 kg to 100 kg 100 kg to 300 kg	0.7 mg 20 mg 0.10g 0.2g 1g 3g 0.006 kg 0.04 kg	Calibrated by using standard weights
	10 mg to 200 g	0.7 mg	
	200 g to 1 kg	None	
	1 kg to	24 mg	Calibrate by using
	5 kg to 10 kg	0.19	standard weights
	10 kg to 20 kg	0.2g	based on
	20 kg to 50 kg	0.39	ASTM E898-88
	50 kg to 100 kg	None	-2005
	100 kg to 500 kg	0.1 kg	

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
	500 kg to 1000 kg	0.2 kg	
C) Pt100	-80 °C to -40 °C	0.37 °C	
	-20 °C to 150 °C	0.33 °C	
C) Type N	-100 °C to 1300 °C	0.46 °C	reference table
	-100 °C to 1300 °C	0.18 °C	calibrator and
	-100 °C to 1300 °C	0.46 °C	reference table ITS-90 based on
	-100 °C to 1300 °C	0.46 °C	reference table
Calibrator	30 °C to 660 °C	0.11 °C	PRT
	420 °C to 1200 °C	2.8 °C	Sensor, Datalogger
	420 °C to 1200 °C	None	
	None	None	
D) Type E	-100 °C to 1000 °C	0.22 °C	EURAMET cg-11/
	-100 °C to 1000 °C	0.11 °C	ITS-90 based on
	-100 °C to 1000 °C	0.22 °C	EURAMET cg-11/
	-100 °C to 1000 °C	0.22 °C	EURAMET cg-11/
Device	None	None	
	None	None	
	None	None	
	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
	-500Pa to +500Pa	-500Pa to +500Pa	comparison method
	-10000Pa to +10000Pa	-10000Pa to +10000Pa	with reference to
	-10000Pa to +10000Pa		
	-10000Pa to +10000Pa	-10000Pa to +10000Pa	EURAMET Guide17
	-10000Pa to +10000Pa		
	None	None	
	None	None	
Device (cont.)	None	None	
E) Type T	-100 °C to 400 °C	0.34 °C	(03/2011)
	-100 °C to 400 °C	0.34 °C	(03/2011)
	-100 °C to 400 °C	0.34 °C	(03/2011)
E) Type T F) Type R	-100 °C to 400 °C 0 °C to 1700 °C	0.14 °C 0.69 °C	Version 2.0 (03/2011)
Enclosure	250 °C to 550 °C	2.0 °C	using

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	100 °C to 300 °C	1.4°C	Thermocouple with
	100 °C to 300 °C	None	reference to AS 2853-
	100 °C to 300 °C	None	1986
	-40 °C to 180 °C	None	using
	-40 °C to 180 °C	None	Temperature
	-40 °C to 180 °C	None	and Humidity
	-40 °C to 180 °C	None	Recorder with
	-40 °C to 180 °C	None	Thermocouple
	-40 °C to 180 °C	None	based on
	-40 °C to 180 °C	None	AS 2853-1986
	100 °C to 200 °C	1.0°C	reference to
	200 °C to 400 °C	1.1°C	AS 2853-1986.
	400 °C to 600 °C	1.9°C	
	600 °C to 800 °C	4.2°C	
	800 °C to 1000 °C	4.3°C	
	1000 °C to 1200 °C	None	
	None	None	and Thermocouple
	0 °C to 250 °C	1.7°C	wire based reference
	0 °C to 250 °C	None	to TLAS G-20-1/02-
	0 °C to 250 °C	None	08
F) Type R	0 °C to 1700 °C	2.0 °C	
	0 °C to 1700 °C	2.0 °C	
	0 °C to 1700 °C	2.0 °C	
	-50 °C to 500 °C 500 °C to 1760 °C	0.3 °C 0.2°C	
	to 1760 °C	2°C	
	to 1760 °C	2°C	
	to 1760 °C	2°C	
	to 1760 °C	0.2 °C	
	to 1760 °C	2°C	
	to 1760 °C	2°C	
Force Measuring Device	0 tonf to 5 tonf	0.066 tonf	Calibrated by
	ONto4.9N 4.9 N to 980 N	0.001 N 0.03 N	Calibrated by using dead weight with reference to
	ONto4.9N 4.9 N to 980 N	None	ISO 376:2011
G) Type S	0 °C to 1700 °C	2.0 °C	
	0 °C to 1700 °C	0.74 °C	
	0 °C to 1700 °C	2.0 °C	
	0 °C to 1700 °C	2.0 °C	
	-50 °C to 500 °C 500 °C to 1760 °C	0.3 °C 0.2°C	
	to 1760 °C	2°C	
	to 1760 °C	2°C	

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H) Type B	to 1760 °C	2°C	
	to 1760 °C	0.2 °C	
	to 1760 °C	2°C	
	to 1760 °C	2°C	
	0 °C to 1760 °C	2°C	
	600 °C to 1800 °C	0.34 °C	
	600 °C to 1800 °C	0.62 °C	
	600 °C to 1800 °C	0.34 °C	
	600 °C to 1800 °C	0.34 °C	
	100 °C to 500 °C 500 °C to 1800 °C	1.1°C 0.3 °C	
	600 °C to 1800 °C	2°C	
Humidity Chamber	25 % r.h. to 95 % r.h.	2.9 % r.h.	recorder with
	20 % RH to 98 % RH	2% RH	Based on AS 2853:1986
	20 % RH to 98 % RH	None	Refer NML
	20 % RH to 98 % RH	None	Temperature & Humidity Measurement by CSIRO Division
	20 % RH to 98 % RH	None	of Applied Physics
	5 °C to 60 °C 30 %rh to 95 %rh	0.6 °C 2.2 Yrh	Calibrated by using temperature recorder with thermocouple and reference table
	5 °C to 60 °C 30 %rh to 95 %rh	None	psychrometer
	5 °C to 60 °C 30 %rh to 95 %rh	0.6 °C 2.2 Yrh	Calibrated by using temperature recorder with thermocouple and reference table
	5 °C to 60 °C 30 %rh to 95 %rh	None	psychrometer
	0 bar to 700 bar	90 mbar	Calibrate using
	0 bar to 700 bar	90 mbar	Calibrate using
Hydraulic	0 bar to 350bar	0.5 bar	

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
	0 psi to 1000 psi 1000 psi to 5000 psi 5000 psi to 10000 psi 10000 psi to 15000 psi	0.7 psi 3 psi 6 psi 10 psi	
	0 psi to 1000 psi 1000 psi to 10000 psi 10000 psi to 15000 psi	0.3 psi 3.3 psi 3.9 psi	
	0 psi to 1000 psi 1000 psi to 10000 psi 10000 psi to 15000 psi	0.3 psi 3.3 psi 3.9 psi	
	0 bar to 350 bar 350 bar to 700 bar	0.09 bar 0.16 bar	
	0 bar to 350 bar 350 bar to 700 bar	0.09 bar 0.16 bar	
	0 psi to 14500 psi	4 psi	
	14500 psi to 36000 psi	14 psi	
	0 to 10000 psi	2.3 psi	based on
	0 to 10000 psi	None	BS EN 837-1:1998,
	0 to 10000 psi	None	BS EN 837-2:1998 &
	0 to 10000 psi	None	BS EN 837-3:1998
	20 bar to 100 bar	0.4 bar	Pressure Meter
	0 bar to 700 bar 0 bar to 1000 bar	0.14 bar 0.016 % of reading	Calibrated using deadweight tester or by comparison method according to MSA Test Method 1
	0 bar to 700 bar 0 bar to 1000 bar	None	and 2 - 2022
	0 bar to 700 bar	0.59 bar	
	300 bar to 700 bar	0.1 bar	
	700 bar to 2500 bar	0.5 bar	
	300 bar to 700 bar	0.1 bar	
	700 bar to 2500 bar	0.46 bar	
I) Rtd (pt100)	-200 °C to 850 °C	0.15 °C	
	-200 °C to 850 °C	0.18 °C	
	-200 °C to 850 °C	0.15 °C	
	-200 °C to 850 °C	0.15 °C	
	-100 °C to 800 °C	0.21 °C	
Indicator	None	None	
	None	None	
	None	None	
	-100 °C to 1300 °C	None	Mirror Hygrometer

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Instrument	to 400 °C	None	
	420 °C to 650 °C	2.7 °C	
	None	None	
	None	None	
	None	None	
	None	None	
	None	None	
	None	None	
	None	None	
	None	None	
	None	None	
	None	None	
	None	None	
	None	None	
	None	None	
	Up to 6.1g	0.032 mg	with standard
	None	None	
	None	None	
	None	None	
	100 kHz to 26.5 GHz	None	
	None	None	
	None	None	
	None	None	
	0.03 to 0.33 mA	None	
	1.0 to 33 mV	None	
	None	None	
	100 yA	None	HP 3458A
	None	None	
	None	None	
	None	None	Measuring
Instrument With Sensor	-40 °C to 150 °C	0.10 °C	PRT /
	150 °C to 300 °C	0.16 °C	P /
	to 400 °C	None	PRT/Thermocouple
	to 400 °C	None	probe in ice bath and
	to 400 °C	None	calibration block with
	to 400 °C	None	reference to
	to 400 °C	None	ASTM E220-13 & ASTM E644-11
Measure	None	None	
Measuring / Indicating	None	None	
	None	None	
	None	None	
	None	None	
	None	None	
	None	None	

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Pneumatic	-5 to 5 inH ₂ O	0.0025	Calibrate using
	-5 inH ₂ O to 5 inH ₂ O	0.0025 inH ₂ O	Calibrate using
	0 bar to 0.35 bar 0.35 bar to 6 bar	0.0012 bar 0.004 bar	(R2018) using Pressure Tester
	0 psi to 30 psi 30 psi to 300 psi 300 psi to 1000 psi 1000 psi to 2000 psi	0.01 psi 0.05 psi 0.3 psi 3.3 psi	
	0 psi to 30 psi 30 psi to 300 psi 300 psi to 1000 psi 1000 psi to 2000 psi	0.01 psi 0.05 psi 0.3 psi 3.3 psi	
	0 psi to 2000 psi	0.5 psi	EN 837-1:1998
	-0.9 bar to 2 bar 2 bar to 20 bar	0.0050 bar 0.03 bar	Calibrated using Pressure Calibrator &
	0 bar to 10 bar	0.007 bar	calibrator.
	0 bar to 10 bar	0.01 bar	calibrator
	-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	None	None	
	None	None	
	None	None	
	None	None	
	15 psi to 1000 psi	0.3 psi	Calibrate using dead

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
	0 psi to 1000 psi	5 psi	standards based on DKD-R 6-1
	0 to 16000 psi	0.03 % of reading	Calibrated using
	None	None	Calibrated using
	-500Pa to +500Pa2Pa	-500Pa to +500Pa	Calibration by
	-500Pa to +500Pa		
	None	None	
	Up to 600 bar	None	on 837-1:1998, BS
	None	None	
Radiation Thermometer	35 °C to 200 °C	1.3°C	Calibrated using
	0°C	0.8 °C	Comparison with reference Pt 100 in ice point
	30 °C to 400 °C	3.6 °C	Comparison with Blackbody temperature calibrator
	50 °C to 200 °C 200 °C to 400 °C	4.9°C 6.8 °C	Comparison with calibrated Blackbody source
	50 °C to 200 °C 200 °C to 400 °C	None	
	-15 °C to 0 °C to 119 °C 120 °C to 199 °C 200 °C to 299 °C 300 °C to 500 °C	0.7 °C 0.7 °C 1.0°C	Calibrated by using Infrared Calibrator based on ASTM E 1256:2017
Resistance (cont.)	33 MQ to 109.9999 MQ 110 MQ to 329.9999 MQ	1.1kQ/Q +17 kQ 4.1 kO/O + 96 kQ	Calibrated by using 5520A
Resistance (discrete	50 mQ	2.9mQ	using miliohm
	50 mQ	2.9mQ	using miliohm
	20	13	using resistance
Source	None	None	
Sourcing / Generating	None	None	
	None	None	
	None	None	
	None	None	
	None	None	
	None	None	
Temperature 23 °C	None	None	
Temperature Bath/ Block	-80 °C to 30 °C	0.07 °C	Comparison with
Temperature Calibrator	None	None	
	None	None	
Temperature Controlled	-80 °C to 250 °C	1.2°C	Calibrated by
	-30 °C to 100 °C	1.1°C	Comparison with Standard
	-40 °C to 180 °C	2°C	Calibrate by

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Temperature Indicating	None	None	Using Midi Logger
	-30 °C to 250 °C	None	Calibrate by
	-80 °C to -40 °C	0.19 °C	Comparison with
	-20 °C to 150 °C	0.10 °C	Comparison with
	None	None	
	to 400 °C	1.2 °C	Comparison with
	None	None	
Temperature Recorder/	-200 °C to 0 °C	0.25 °C	calibrator.
	None	None	
Temperature Sensor	None	None	
	-20 °C to 150 °C	0.95 °C	Comparison with
	5 °C to 65 °C @ 55 %rh	None	Comparison with temperature standard in humidity chamber
	-80 °C to 50 °C 50 °C to 250 °C	0.07 °C 0.15 °C	Comparison with Standard
	250 °C to 400 °C	0.27 °C	Resistance
	250 °C to 400 °C	None	Thermometer in
	250 °C to 400 °C	None	calibration bath
	250 °C to 400 °C	None	and heat block, humidity chamber
	400 °C to 700 °C 700 °C to 1100 °C	2.5 °C	Comparison with Standard
	400 °C to 700 °C 700 °C to 1100 °C	None	Thermocouple in calibration heat
	400 °C to 700 °C 700 °C to 1100 °C	None	block
	-30 °C to 50 °C 50 °C to 250 °C	0.10 °C 0.18 °C	Comparison with Standard
	250 °C to 400 °C	0.30 °C	Resistance
	250 °C to 400 °C	None	Thermometer in
	250 °C to 400 °C	None	calibration bath
	250 °C to 400 °C	None	and heat block.
	400 °C to 700 °C 700 °C to 1100 °C	2.0 °C 2.6 °C	Comparison with Standard
	400 °C to 700 °C 700 °C to 1100 °C	None	Thermocouple in calibration heat
	400 °C to 700 °C 700 °C to 1100 °C	None	block.
	0 °C	0.8 °C	Comparison with reference Thermometer with sensor in ice point

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	50 °C to 350 °C	1°C	Comparison with reference thermal block calibrator
	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
	0°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
Thermohygro Devices	None	None	
Torque Tools	ON.m to 5N.m	0.068 N.m	Calibrated by
	ON.m to 1N.m 1N.m to 10N.m 10N.m to 50N.m 50N.m to 100N.m	0.003N.m 0.03N.m 0.1N.m 0.2N.m	Calibrated using Torque Tester based on
Vacuum	-0.97 bar to 0 bar	1.3 mbar	Calibrate using
	-0.97 bar to 0 bar	1.3 mbar	Calibrate using
	-0.9bar to 0bar	0.03bar	according to AS 1349:1986
	Ambient to - 0.95 bar	0.001 bar	Calibrated using Pressure Calibrator based on BS EN 837-1, BS EN 873-3 & DKD-R 6-1 Ed 03/2014
	0 bar to -0.95 bar	0.003 bar	Calibration using pressure
	0 bar to -0.95 bar	0.003 bar	Calibration using pressure

Schedule

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Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks
Values)	100 mQ	5.8 mQ	resistance box
	100 mQ	5.8 mQ	resistance box
	50 MO	15 kQ	box

Schedule

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Valid Until: -



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SCOPE OF CALIBRATION : FORCE

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks

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Schedule

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SCOPE OF CALIBRATION : MASS

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks

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Schedule

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SCOPE OF CALIBRATION : PRESSURE

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks

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Schedule

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SCOPE OF CALIBRATION : TEMPERATURE

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks

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SCOPE OF CALIBRATION : TORQUE

Instrument Calibrated/Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty ($\pm$)*	Remarks

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