

Schedule

Issue date: 4 January 2019
Valid until: 16 April 2022



MS ISO/IEC 17025

NO: SMM 592

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LABORATORY LOCATION:
(PERMANENT LABORATORY)



G CALIBRATION SDN. BHD.
NO. 8A, JALAN GAYA 26
TAMAN GAYA
81800 ULU TIRAM
JOHOR
MALAYSIA

FIELDS OF CALIBRATION:

PRESSURE, FORCE, MASS, TEMPERATURE &
DIMENSIONAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2005 (ISO/IEC 17025:2005).

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 expanded uncertainties are based on an estimated confidence probability of approximately 95% and have a coverage factor of $k=2$ unless stated otherwise.

SCOPE OF CALIBRATION: PRESSURE

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty(\pm)*	Remarks
Pressure measuring instruments	15 psi to 1000 psi 1000 psi to 3000 psi 3000 psi to 5000 psi	0.3 psi 1 psi 2 psi	Calibrate using dead weight tester as standards based on DKD-R 6-1 sequence A, C

Signatory:

1. Ng Poh Hwa

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SCOPE OF CALIBRATION: PRESSURE

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty(\pm)*	Remarks
Pneumatic pressure measuring instruments	0 bar to 2 bar 2 bar to 20 bar	0.001 bar 0.01 bar	Calibration using digital pressure test gauges as standards based on DKD-R 6-1 sequence A, C
Vacuum instruments	-1 bar to 0 bar	0.005 bar	

SCOPE OF CALIBRATION: PRESSURE**SITE: CATEGORY I**

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty(\pm)*	Remarks
Pneumatic pressure measuring instruments	0 bar to 2 bar 2 bar to 20 bar	0.001 bar 0.01 bar	Calibration using digital pressure test gauges as standards based on DKD-R 6-1 sequence A, C
Vacuum instruments	-1 bar to 0 bar	0.005 bar	
Pressure measuring instruments (Burdon tube type)	0 psi to 1000 psi	5 psi	

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SCOPE OF CALIBRATION: FORCE

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty(\pm)*	Remarks
Push pull gauge / digital force gauge / tension gauge	0 kgf to 0.5 kgf 0.5 kgf to 1 kgf 1 kgf to 3 kgf 3 kgf to 50 kgf 50 kgf to 100 kgf	0.001 kgf 0.002 kgf 0.005 kgf 0.01 kgf 0.1 kgf	Calibrate using standard weight and poise weights. Calibrations may be given in other units by conversion from SI units.

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SCOPE OF CALIBRATION: MASS

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty(\pm)*	Remarks
Standard weight	1 g	0.04 mg	Calibrate using reference standard weight by comparison method according to ABBA weighing scheme
	2 g	0.05 mg	
	5 g	0.06 mg	
	10 g	0.07 mg	
	20 g	0.09 mg	
	50 g	0.10 mg	
	100 g	0.17 mg	
	200 g	0.4 mg	
	500 g	0.002 g	
	1 kg	0.006 g	
	2 kg	0.02 g	
	5 kg	0.03 g	
	10 kg	0.2 g	
	20 kg	0.4 g	

SCOPE OF CALIBRATION: MASS

SITE: CATEGORY I

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty(\pm)*	Remarks
Electronic balance	Up to 50 g	0.0002 g	Calibrate using standard weights as standards based on ASTM E898- 88:2005
	Up to 100 g	0.0004 g	
	Up to 200 g	0.001 g	
	Up to 600 g	0.002 g	
	Up to 1000 g	0.01 g	
	Up to 2000 g	0.02 g	
	Up to 4000 g	0.04 g	
	Up to 10000 g	0.1 g	
	Up to 25000 g	0.4 g	
	Up to 30000 g	0.5 g	
	Up to 60 kg	0.02 kg	
	Up to 100 kg	0.04 kg	
	Up to 300 kg	0.05 kg	
	Up to 500 kg	0.1 kg	
	Up to 700 kg	0.2 kg	
	Up to 1200 kg	0.4 kg	
	Up to 1500 kg	0.5 kg	

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SCOPE OF CALIBRATION: TEMPERATURE

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty(\pm)*	Remarks
Temperature indicating instrument			
Type K	-100 °C to 1300 °C	1.0 °C	Calibrated by electrical simulation using temperature calibrator
Type J	-100 °C to 1100 °C	0.9 °C	
Type E	-100 °C to 990 °C	1.0 °C	
Type T	-100 °C to 390 °C	1.0 °C	
Type S	0 °C to 1700 °C	2 °C	
Type R	0 °C to 1700 °C	2 °C	
Pt100	-100 °C to 800 °C	0.6 °C	

SCOPE OF CALIBRATION: TEMPERATURE**SITE: CATEGORY I**

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty(\pm)*	Remarks
Temperature indicating instrument			
Type K	-100 °C to 1300 °C	1.0 °C	Calibrated by electrical simulation using temperature calibrator
Type J	-100 °C to 1100 °C	0.9 °C	
Type E	-100 °C to 990 °C	1.0 °C	
Type T	-100 °C to 390 °C	1.0 °C	
Type S	0 °C to 1700 °C	2 °C	
Type R	0 °C to 1700 °C	2 °C	
Pt100	-100 °C to 800 °C	0.6 °C	

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SCOPE OF CALIBRATION: DIMENSIONAL

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty(\pm)*	Remarks
Caliper	External measurement 0 mm to 300 mm 300 mm to 600 mm	0.01 mm 0.02 mm	Calibrate using gauge blocks as standards based on JIS B 7507:2016
	Internal measurement 0 mm to 300 mm	0.01 mm	<ul style="list-style-type: none"> • Partial Measuring face contact error • Repeatability of partial measuring face contact error • Parallelism of jaws • Full measuring face contact error • Scale shift error
External micrometer	25 mm travel range Frame size Up to 100 mm 100 mm to 150 mm 150 mm to 200 mm 200 mm to 250 mm 250 mm to 300 mm 325 mm to 350 mm 350 mm to 400 mm 400 mm to 500 mm	0.001 mm 0.002 mm 0.003 mm 0.004 mm 0.005 mm 0.006 mm 0.007 mm 0.008 mm 0.010 mm	Calibrate using gauge blocks as standards based on JIS B 7502:2016 <ul style="list-style-type: none"> • Full surface contact error • Flatness • Parallelism <p>Note: Standard rod to be provided if the measurement range is > 25 mm</p>

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