



MS ISO/IEC 17025

Certificate of Accreditation

No: SAMM 592
 (Issue 2, 30 January 2015 replacement
 of SAMM 592 dated 16 April 2013)

Valid until: 16 April 2016

This is to certify that

G CALIBRATION SDN. BHD.
ULU TIRAM, JOHOR
MALAYSIA
 (FIELDS OF CALIBRATION: PRESSURE, FORCE, MASS &
 TEMPERATURE)

has been granted accreditation in respect of the scope of accreditation described in the SCHEDULE attached, subject to the terms and conditions governing the *Skim Akreditasi Makmal Malaysia (SAMM)*, the Laboratory Accreditation Scheme of Malaysia.

"This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated January 2009)".

Issuance of this certificate is governed by Section 16 Subsection (2) and (3) of Standards of Malaysia Act 1996, (Act 549).



(DATUK FADILAH BAHARIN)
 Director General
 Department of Standards Malaysia

Date of issue: 30 January 2015

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LABORATORY LOCATION:
(PERMANENT LABORATORY)

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

This laboratory accredited under *Skim Akreditasi Makmal Malaysia (SAMM)* meets the requirements of MS ISO/IEC 17025:2005 'General requirements for competence of testing and calibration laboratories'. This Malaysian Standards is identical with ISO/IEC 17025:2005 published by the International Organization for Standardization (ISO).

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

FIELD OF CALIBRATION: PRESSURE

SCOPE OF ACCREDITATION:

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Pressure measuring instruments	15 psi to 3000 psi 3000 psi to 5000 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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FIELD OF CALIBRATION: PRESSURE**PERMANENT LABORATORY & SITE CALIBRATION - CATEGORY I****SCOPE OF ACCREDITATION:**

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*		Remarks
		Permanent	Site	
Pneumatic pressure measuring instruments	0 bar to 2 bar 2 bar to 20 bar	0.001 bar 0.01 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	0.005 bar	

Signatory:

1. Ng Poh Hwa

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

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*		Remarks
		Permanent	Site	
Pressure measuring instruments (Burdon tube type)	0 psi to 1000 psi	5 psi		Calibrate using digital pressure test gauge as standards based on DKD-R 6-1 sequence C

Signatory:

1. Ng Poh Hwa



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FIELD OF CALIBRATION: FORCE**SCOPE OF ACCREDITATION:**

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.

Signatory:

1. Ng Poh Hwa



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FIELD OF CALIBRATION: MASS**SCOPE OF ACCREDITATION:**

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Standard weight	1 g, 2 g, 5 g 10 g, 20 g, 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 20 kg	0.1 mg 0.1 mg 0.2 mg 0.2 mg 0.001 g 0.01 g 0.01 g 0.02 g 0.1 g 0.2 g	Calibrate using reference standard weight by comparison method according to ABBA weighing scheme

Signatory:

1. Ng Poh Hwa

FIELD OF CALIBRATION: MASS**SITE CALIBRATION: CATEGORY I****SCOPE OF ACCREDITATION:**

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Electronic balance	0 g to 200 g 200 g to 600 g 600 g to 1000 g 1000 g to 6000 g 6000 g to 10000 g 10000 g to 30000 g 30 kg to 60 kg 60 kg to 100 kg 100 kg to 150 kg 150 kg to 300 kg 300 kg to 500 kg 500 kg to 1000 kg 1000 kg to 1500 kg	0.0002 g 0.001 g 0.01 g 0.02 g 0.1 g 0.2 g 0.015 kg 0.03 kg 0.04 kg 0.06 kg 0.2 kg 0.3 kg 0.5 kg	Calibrate using standard weights as standards based on ASTM E898-88:2005

Signatory:

1. Ng Poh Hwa



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FIELD OF CALIBRATION: TEMPERATURE**SCOPE OF ACCREDITATION:**

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Temperature indicating instrument Type K	-30 °C to 1200 °C	0.4 °C	Calibrated by electrical simulation using temperature calibrator
Type J	-30 °C to 1200 °C	0.4 °C	
Pt 100	-30 °C to 800 °C	0.2 °C	Calibrated by electrical simulation using temperature calibrator

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

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty (\pm)*	Remarks
Temperature indicating instrument Type K	-30 °C to 1200 °C	1.2 °C	Calibrated by electrical simulation using temperature calibrator
Type J	-30 °C to 1200 °C	1.2 °C	
Pt 100	-30 °C to 800 °C	1.2 °C	

Signatory:

1. Ng Poh Hwa

