

# Schedule

Issue date: 30 August 2023  
Valid until: 16 April 2025



## NO: SAMM 592

(Issue 2, 30 August 2023 replacement of SAMM 592 dated 4 March 2022)

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### LABORATORY LOCATION: (PERMANENT LABORATORY)



**G CALIBRATION SDN. BHD.**  
**NO.19, JALAN GEMILANG 10**  
**TAMAN PERINDUSTRIAN CEMERLANG**  
**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 17025:2017 (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 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 Device:  Hydraulic	100 psi to 300 psi 300 psi to 1000 psi 1000 psi to 3000 psi 3000 psi to 5000 psi 5000 psi to 10,000 psi	0.06 psi 0.2 psi 0.6 psi 0.9 psi 2 psi	Calibrate using dead weight tester as standards with reference to 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
Pressure Measuring Device:  Pneumatic	0 bar to 2 bar 2 bar to 20 bar 20 bar to 70 bar	0.001 bar 0.01 bar 0.03 bar	Calibration using digital pressure test gauges as standards with reference to DKD-R 6-1 sequence A, C
Vacuum	-1 bar to 0 bar	0.005 bar	
Hydraulic	0 psi to 1000 psi 1000 psi to 5000 psi 5000 psi 10,000 psi	0.4 psi 2.4 psi 4 psi	

### SCOPE OF CALIBRATION: PRESSURE

#### SITE: CATEGORY I

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty( $\pm$ )*	Remarks
Pressure Measuring Device:  Pneumatic	0 bar to 2 bar 2 bar to 20 bar 20 bar to 70 bar	0.001 bar 0.01 bar 0.03 bar	Calibration using digital pressure test gauges as standards with reference to DKD-R 6-1 sequence A, C
Vacuum	-1 bar to 0 bar	0.005 bar	
Hydraulic	0 psi to 1000 psi 1000 psi to 5000 psi 5000 psi 10,000 psi	0.4 psi 2.4 psi 4 psi	

#### Signatory:

1. Ng Poh Hwa

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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.

**Signatory:**1. **Ng Poh Hwa**

**NO: SAMM 592**(Issue 2, 30 August 2023 replacement  
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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	0.04 mg 0.05 mg 0.06 mg 0.07 mg 0.09 mg 0.10 mg 0.17 mg 0.4 mg 0.002 g 0.006 g 0.02 g 0.03 g 0.2 g 0.4 g	Calibrate using reference standard weight by comparison method according to ABBA weighing scheme

**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 Up to 100 g Up to 200 g Up to 600 g Up to 1000 g Up to 2000 g Up to 4000 g Up to 10000 g Up to 25000 g Up to 30000 g Up to 60 kg Up to 100 kg Up to 300 kg Up to 500 kg Up to 700 kg Up to 1200 kg Up to 1500 kg	0.0002 g 0.0004 g 0.001 g 0.002 g 0.01 g 0.02 g 0.04 g 0.1 g 0.4 g 0.5 g 0.02 kg 0.04 kg 0.05 kg 0.1 kg 0.2 kg 0.4 kg 0.5 kg	Calibrate using standard weights as standards based on ASTM E898- 20

**Signatory:**1. **Ng Poh Hwa**

**NO: SAMM 592**(Issue 2, 30 August 2023 replacement  
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Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty( $\pm$ )*	Remarks
<b>Temperature indicating instrument</b>			
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	0.9 °C	
Type T	-100 °C to 390 °C	1.0 °C	
Type S	0 °C to 1700 °C	1.4 °C	
Type R	0 °C to 1700 °C	1.3 °C	
Pt100	-100 °C to 800 °C	0.3 °C	

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

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty( $\pm$ )*	Remarks
<b>Temperature indicating instrument</b>			
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	0.9 °C	
Type T	-100 °C to 390 °C	1.0 °C	
Type S	0 °C to 1700 °C	1.4 °C	
Type R	0 °C to 1700 °C	1.3 °C	
Pt100	-100 °C to 800 °C	0.3 °C	

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**NO: SAMM 592**(Issue 2, 30 August 2023 replacement  
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Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty( $\pm$ )*	Remarks
Caliper	<b>External measurement</b> 0 mm to 300 mm 300 mm to 600 mm	0.01 mm 0.02 mm	Calibrate using gauge blocks as standards with reference to JIS B 7507:2016 <ul style="list-style-type: none"> <li>• Partial Measuring face contact error</li> <li>• Repeatability of partial measuring face contact error</li> <li>• Parallelism of jaws</li> <li>• Full measuring face contact error</li> <li>• Scale shift error</li> </ul>
	<b>Internal measurement</b> 0 mm to 300 mm	0.01 mm	
External micrometer	25 mm travel range  <b>Frame size</b> Up to 100 mm 100 mm to 225 mm 225 mm to 425 mm 425 mm to 500 mm	1 $\mu$ m  1 $\mu$ m 2 $\mu$ m 3 $\mu$ m 4 $\mu$ m	Calibrate using gauge blocks as standards with reference to JIS B 7502:2016 <ul style="list-style-type: none"> <li>• Full surface contact error</li> <li>• Flatness</li> <li>• Parallelism</li> </ul>

Scan this QR Code or visit [www.ism.gov.my/cab-direktories](http://www.ism.gov.my/cab-direktories) for the current scope of accreditation**Signatory:**1. **Ng Poh Hwa**





**STANDARDS**  
MALAYSIA

# Certificate of Accreditation

No: SMM 592

Accredited since: 16 April 2013

This is to certify that

G CALIBRATION SDN. BHD.  
ULU TIRAM, JOHOR  
MALAYSIA



Scan this QR Code or visit  
[www.jsm.gov.my/cab-directories](http://www.jsm.gov.my/cab-directories)  
for the current scope of accreditation

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

Laboratories accredited under SMM meet the requirements of MS ISO/IEC 17025. This Malaysian Standard is identical with ISO/IEC 17025 published by the International Organization for Standardization (ISO).

(DATUK FADILAH BAHARIN)  
Director General  
Department of Standards Malaysia

Date of issue: 4 January 2019

