Laboratory Accreditation Programmes

Schedule to CERTIFICATE OF ACCREDITATION



Sensortron i T-A Sensortro	ic Scale Enterprises Ltd nic Weighing & Inspection Aust	ralasia	Client Number 7608	
PO Box 372, F 22 Northway S	Palmerston North, 4440 Street, Te Rapa, Hamilton, 3200	1		
Telephone	07 849-3432	www.swia.nz		
Authorised Ro Mr Jay Attanag General Manag	epresentative goda ger of Operations			
Programme Metrology & Ca	alibration Laboratory			
Accreditation Number 1107 Initial Accreditation Date 3 July 2014			on Date 3 July 2014	
Conformance Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories				
Laboratory Services Summary				
5.21 5.22 5.23 5.24 5.51 5.53	Masses Precision Laboratory Balances Industrial Balances Industrial Weighing Appliance Force Measuring Devices Testing Machines	5		
Key Technica	I Personnel			
Mr Gurdarsha Mr Joshua Ne	n Gill 5.2° Iley 5.2°	, 5.22, 5.23, 5.24, 5.51, 5 , 5.22, 5.23, 5.24, 5.51, 5	5.53 5.53	

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Calibration and Measurement Capabilities (CMC) Uncertainties are expressed as an expanded uncertainty corresponding to a level of confidence of 95 % Note1.

Measurement results are traceable to the International System of Units (SI) via an unbroken chain of comparisons to the New Zealand National Standards or to the National Standards of other Signatories to the CIPM MRA.

Calibrations are normally performed at the customer's premises, apart from masses.

Branch laboratories are also maintained at the following addresses: Unit 1, 4 Freeman Way, Manukau City, Auckland 17 Te Arakura Road, Feilding 186 Hazeldean Road, Addington, Christchurch

5.21 Masses

- (a) Examination of laboratory standards of mass
- (b) Examination of industrial standards of mass
- Determination of the mass of solid objects (c)

In accordance with an in-house procedure based on the Measurement Standards Laboratory of New Zealand (MSL) Technical Guide 7 and OIML R 111-1. Mass calibrations are performed at the branch laboratories in a controlled environment at 20 °C ± 1 °C.

> **CMC** Uncertainty Stainless steel masses 1 mg to 100 mg 0.02 mg to 0.05 mg 200 mg to 2 g 0.06 mg to 0.12 mg 5 g to 50 g 0.16 mg to 0.3 mg 100 g to 5 kg 0.5 x 10⁻⁵ 10 kg to 20 kg 1.6 x 10⁻⁵ Cast iron masses 20 kg to 200 kg 5 x 10⁻⁵ 200 kg to 500 kg 11 x 10⁻⁵ 500 kg to 12000 kg 7 x 10⁻⁵

5.22 **Precision Laboratory Balances**

In accordance with an in-house procedure based on the MSL Technical Guide 25 and OIML R 111-1

Balance reading

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CMC Uncertainty

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> 1 mg to 100 mg 200 mg to 2 g 5 g to 50 g 100 g to 5 kg 10 kg to 20 kg 20 kg to 65 kg

5.23 Industrial Balances

In accordance with an in-house procedure based on the MSL Technical Guide 25 and OIML R 111-1

CMC Uncertainty

0.02 mg to 0.05 mg

0.06 mg to 0.12 mg 0.16 mg to 0.3 mg

0.5 x 10⁻⁵

1.6 x 10⁻⁵

5 x 10⁻⁵

7 x 10⁻⁵

11 x 10⁻⁵

0.02 mg to 0.05 mg

0.06 mg to 0.12 mg 0.16 mg to 0.3 mg

0.5 x 10⁻⁵ 1.6 x 10⁻⁵

5 x 10⁻⁵

Balance reading

1 mg to 100 mg 200 mg to 2 g 5 g to 50 g 100 g to 5 kg 10 kg to 20 kg 20 kg to 200 kg 200 kg to 500 kg

5.24 Industrial Weighing Appliances

i) In accordance with an in-house procedure based on the MSL Technical Guide 25 and OIML R 111-1

CMC Uncertainty

Scale reading

500 kg to 12000 kg

ii) Dynamic weighers (checkweighers, catchweighers), in accordance with an in-house procedure based on OIML R 51-1 2006

1 mg to 100 mg 200 mg to 2 g 5 g to 50 g 100 g to 5 kg 10 kg to 20 kg 20 kg to 100 kg 0.02 mg to 0.05 mg 0.06 mg to 0.12 mg 0.16 mg to 0.3 mg 0.5 x 10^{-5} 1.6 x 10^{-5} 5 x 10^{-5}

5.51 Force Measuring Devices

(b) Elastic force measuring devices and force dynamometers

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Spring balances, load cells and other mechanical or digital force gauges in accordance with an in-house procedure based on the requirements of the MSL Technical Guide 25 and OIML R 111-1.

i) By comparison with reference masses

Up to 12 tonnes (117.6 kN) in tension or compression – CMC Uncertainty as above in 5.21

ii) By comparison with reference load cells

Up to 100 tonnes (981 kN) in tension or compression – CMC Uncertainty as below in 5.53

5.53 Testing Machines

- (a) Tension and universal machines in tension
- (b) Compression and universal machines in compression

Tension, compression and universal machines by comparison with load cells of Class 2.0 and higher in accordance with BS EN ISO 7500-1

Load 49 kN 98 kN 196 kN to 610 kN 687 kN to 982 kN CMC Uncertainty

0.40 % of applied load 0.41 % of applied load 0.39 % of applied load 0.38 % of applied load

Note 1:

Unless stated otherwise the CMC is based on the performance of the best available device and measurement uncertainties achieved for specific calibrations may be greater than the CMC Uncertainty. A laboratory may not report measurement uncertainties lower than its CMC. However, if the device under calibration has a greater accuracy than the device used to calculate the CMC the laboratory may be able to use the calibration data to lower its CMC Uncertainty. Please contact the laboratory to discuss your specific requirements.

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