# Laboratory Accreditation Programmes

Schedule to

# BC-MRA

CERTIFICATE OF	ACCREDITATIO	Tohu Matatau Aoteoroo
		and a law
Sensortronic Scale Enter		Client Number 7608
PO Box 10366, Te Rapa, Hami 22 Northway Street, Te Rapa, H		
Telephone 07 849-3432	www.swia	ı.nz
Authorised Representative	3	
Mr Jay Attanagoda		
General Manager of Operations	,	
Programme Metrology & Calibration Laborat	ory	
Accreditation Number 1107 Initial Accreditation Date 3 July 2014		
Conformance Standard		
ISO/IEC 17025:2017		
General requirements for the co	mpetence of testing and calibra	ation laboratories
Laboratory Services Summar	у	
F 04		
5.21 Masses 5.22 Precision La	boratory Balances	
5.23 Industrial Ba		
	eighing Appliances	
5.51 Force Measu		
5.53 Testing Mac		
Key Technical Personnel		
Mr Cameron Thomson	5.21, 5.22, 5.23, 5.24	4, 5.51, 5.53
Mr Ted Wang	5.21, 5.22, 5.23, 5.24	4, 5.51, 5.53

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IANZ; Level 1, 626 Great South Road, Ellerslie, Auckland 1051 Private Bag 28908, Remuera, Auckland 1541 Tel 09-525 6655 <u>info@ianz.govt.nz</u> ianz.govt.nz				

## Laboratory Accreditation Programmes

# Schedule to CERTIFICATE OF ACCREDITATION



#### Sensortronic Scale Enterprises Ltd Metrology & Calibration Laboratory SCOPE OF ACCREDITATION

Accreditation Number 1107

Calibration and Measurement Capabilities (CMC) Uncertainties are expressed as an expanded uncertainty with a level of confidence of approximately 95 % (k = 2) <sup>Note1</sup>.

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
- (c) Determination of the mass of solid objects

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  $\pm$  1 °C.

Stainless steel masses	CMC Uncertainty
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 <sup>-5</sup>
200 kg to 500 kg	11 x 10 <sup>-5</sup>
500 kg to 12000 kg	7 x 10 <sup>-5</sup>

#### 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 r	eading	(	CMC Uncertainty	
1 mg to 10 200 mg to 5 g to 50 g	o 2 g	(	0.02 mg to 0.05 mg 0.06 mg to 0.12 mg 0.16 mg to 0.3 mg	
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# Schedule to CERTIFICATE OF ACCREDITATION



Metrology	nic Scale Enterprises Ltd & Calibration Laboratory OF ACCREDITATION	SC 110	Accreditation Nur	nber 1107
	100 g to 5 kg 10 kg to 20 kg	.0110	0.5 x 10 <sup>-5</sup> 1.6 x 10 <sup>-5</sup>	
5 00	20 kg to 65 kg		5 x 10 <sup>-5</sup>	
5.23	industrial balances			
In accord	dance with an in-house procedu	re based on the MSL Technic	al Guide 25 and OIML F	R 111-1
	Balance reading		CMC Uncertainty	
	1 mg to 100 mg		0.02 mg to 0.05 mg	
	200 mg to 2 g 5 g to 50 g		0.06 mg to 0.12 mg 0.16 mg to 0.3 mg	
	100 g to 5 kg		0.5 x 10 <sup>-5</sup>	
	10 kg to 20 kg		1.6 x 10 <sup>-5</sup>	
	20 kg to 200 kg		5 x 10 <sup>-5</sup>	
	200 kg to 500 kg		11 x 10 <sup>-5</sup>	
5.24	Industrial Weighing App	liances		
i) In ac	cordance with an in-house proc	edure based on the MSL Tech	hnical Guide 25 and OIM	1L R 111-1
	Scale reading		CMC Uncertainty	
	500 kg to 12000 kg		7 x 10 <sup>-5</sup>	
	mic weighers (checkweighers, o . R 51-1 2006	catchweighers), in accordance	e with an in-house proce	dure based on
	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 <sup>-5</sup>	
	10 kg to 20 kg		1.6 x 10 <sup>-5</sup>	
	20 kg to 100 kg		5 x 10 <sup>-5</sup>	
5.51	Force Measuring Device	S		
(b)	Elastic force measuring equipment and force dynamometers			
	alances, load cells and other more based on the requirements of			n in-house
i)	By comparison with reference	masses		
	Up to 12 tonnes (117.6 kN) in	tension or compression - CM	IC Uncertainty as above	in 5.21
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	thorisation:	Issue 12	Date:21/07/21	Page 3 of 4
		1, 626 Great South Road, Ellerslie, Auc ate Bag 28908, Remuera, Auckland 15		

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## Laboratory Accreditation Programmes

# Schedule to CERTIFICATE OF ACCREDITATION



# Sensortronic Scale Enterprises Ltd Metrology & Calibration Laboratory Accreditation Number 1107 SCOPE OF ACCREDITATION By comparison with reference load cells ii) Up to 100 tonnes (981 kN) in tension or compression - CMC Uncertainty as below in 5.53 **Testing Machines** 5.53 Tension, compression and universal machines by comparison with load cells of Class 2.0 and (a) higher in accordance with BS EN ISO 7500-1 Load CMC Uncertainty 49 kN 0.40 % of applied load 0.41 % of applied load 98 kN 196 kN to 610 kN 0.39 % of applied load 687 kN to 982 kN 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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