



Wedderburn Scales Ltd

Client Number 4949

PO Box 12801, Penrose, Auckland, 1642
14 Vestey Drive, Mount Wellington, Auckland, 1060

Telephone 09 258-5012
repairs/ianz-calibration-services/

www.wedderburn.co.nz/maintenance-and-

Authorised Representative

Mr Brent Taylor
National Service Manager

Programme

Metrology & Calibration Laboratory

Accreditation Number 550

Initial Accreditation Date 3 February 1995

Conformance Standard

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

Laboratory Services Summary

- 5.21 Masses
- 5.22 Precision Laboratory Balances
- 5.23 Industrial Balances
- 5.24 Industrial Weighing Appliances
- 5.51 Force Measuring Devices

Key Technical Personnel

Mr Robert Brown	5.21, 5.22, 5.23, 5.24, 5.51
Mr Graeme Dunn	5.21, 5.22, 5.23, 5.24, 5.51
Mr Laijo Jolly	5.21, 5.22, 5.23, 5.24, 5.51
Mr Heinrich van der Merwe	5.21, 5.22, 5.23, 5.24, 5.51
Mr Rodney Ranstead	5.21, 5.22, 5.23, 5.24, 5.51
Mr Brent Taylor	5.21, 5.22, 5.23, 5.24, 5.51
Mr Dorde (George) Vujanovic	5.21, 5.22, 5.23, 5.24, 5.51

Operations Manager Authorisation:		Issue 54	Date:05/12/25	Page 1 of 3
--------------------------------------	--	----------	---------------	-------------



Wedderburn Scales Ltd
 Metrology & Calibration Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 550

Calibration and Measurement Capabilities (CMC) 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 can be performed at the premises of the accredited laboratory or the customer.

Branch laboratories are also maintained at the following addresses:

Christchurch: 84 Carmen Road, Hornby
 Wellington: 43 Fitzherbert Street, Petone

Measurand/Range	CMC Uncertainty
-----------------	-----------------

5.21 Masses

- (a) Examination of laboratory standards of mass
- (b) Examination of industrial standards of mass

In accordance with an in-house procedure based on the Measurement Standards Laboratory of New Zealand Technical Guide 7 and OIML R 111-1. Mass calibration can be offered on site anywhere in New Zealand using the on-site procedure including at other company locations in Dunedin, Hamilton, Napier, Nelson, Palmerston North, Tauranga and Whangarei. Maximum mass values achievable depend on the comparators available at the site of measurement.

Maximum nominal value	
0 g to 10 g	1×10^{-5}
10 g to 10000 g	1×10^{-6}
10 kg to 30 kg	1×10^{-5}
30 kg to 200 kg	2×10^{-5}
200 kg to 5000 kg	1×10^{-4}

- (c) Determination of the mass of solid objects of irregular shape or unknown density

0 kg to 5000 kg	5×10^{-4}
-----------------	--------------------

5.22 Precision Laboratory Balances

In accordance with an in-house procedure based on the Measurement Standards Laboratory of New Zealand Technical Guide 25 and OIML R 111-1. Calibration of laboratory balances and industrial weighing equipment is offered at the client's premises as well as at the laboratory.

Balance reading	
0 kg to 65 kg	Refer to 5.21 (a)(b)

Operations Manager Authorisation:		Issue 54	Date:05/12/25	Page 2 of 3
--------------------------------------	--	----------	---------------	-------------



Wedderburn Scales Ltd
 Metrology & Calibration Laboratory
SCOPE OF ACCREDITATION

Accreditation Number 550

5.23 Industrial Balances

Balance reading
 0 kg to 1000 kg

Refer to 5.21 (a)(b)

It is recommended that balances be calibrated at their normal position of use unless specifically designed to be transportable. At the customer's request balances of accuracy no better than 0.03 % (3000 divisions) can be calibrated away from the site of intended use, in accordance with an in-house method, and the customer assumes responsibility for the proper functioning of the equipment at the site it is used.

5.24 Industrial Weighing Appliances

Includes apparatus such as load cells with digital indicators, spring balances and other elastic weighing equipment that includes a scale in units of weight.

Weight reading
 0 kg to 5000 kg
 5000 kg to 35000 kg

Refer to 5.21 (a)(b)
 1.3×10^{-4}

5.51 Force Measuring Devices

(b) Elastic force measuring devices and force dynamometers

Calibration of spring balances, load cells and other mechanical or digital force gauges in either tension or compression in accordance with an in-house procedure based on the requirements of the MSL Technical Guide 25 and OILM R 111-1. Calibration by comparison with reference masses (refer to 5.21) and converted to Newtons. The CMC Uncertainties include only reference mass uncertainties and may not reflect the performance of a force measuring instrument under calibration.

Examples of force ranges
 0 N to 0.098 N
 0.098 N to 98 N
 98 N to 294 N
 294 N to 1962 N
 1962 N to 49034 N

9.8×10^{-6}
 1×10^{-6}
 1×10^{-5}
 2×10^{-5}
 1×10^{-4}

CMC may also be expressed in other force units.

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.

Operations Manager Authorisation:		Issue 54	Date:05/12/25	Page 3 of 3
--------------------------------------	--	----------	---------------	-------------