CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Circuit Scale, Inc.

603 Colby Drive, Unit 10
Waterloo, ON N2V 1A1

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

CALIBRATION

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 28 March 2024
Certificate Number: L2136-1

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Circuit Scale, Inc.
603 Colby Drive, Unit 10
Waterloo, ON N2V 1A1
Don Herzberg
519-570-9678

CALIBRATION

Valid to: **March 28, 2024** Certificate Number: **L2136-1**

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Analytical Balances [1] (0.000 1 g Resolution)	(0 to 220) g	0.87 mg	ASTM E6 1 7 Class 1 Weights, Canadian Weights and Measures Act and NIST Handbook 44 utilized for the calibration of the Weighing System
(0.001 g Resolution)	(0 to 380) g	1.7 mg	
(0.01 g Resolution)	(0 to 2 500) g	15 mg	
(0.1 g Resolution)	(0 to 5 100) g	0.13g	
Industrial Scales [1] (0.5 g Resolution)	(0 to 1 000) g	0.51 g	Standard Weights per Measurement Canada Schedule IV Part III of Weights and Measurements Act and Regulations (OIML Class Ml), Canadian Weights and Measures Act and NIST Handbook 44 utilized for the calibration of the Weighing System
(1 g Resolution)	(0 to 2 000) g	1 g	
(2 g Resolution)	(0 to 10 000) g	2.1 g	
(0.01 kg Resolution)	(0 to 200) kg	0.016 kg	
(0.5 kg Resolution)	(0 to 2 500) kg	0.52 kg	
(5 kg Resolution)	(0 to 20 000) kg	7.7 kg	
(10 kg Resolution)	(0 to 100 000) kg	19 kg	

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope.
2. This scope is formatted as part of a single document including Certificate of Accreditation No. L2136-1.

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