SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ACETRONIC INDUSTRIAL CONTROLS, INC.
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CALIBRATION

Valid To: December 31, 2022 Certificate Number: 3665.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations[1, 4]:

I. Electrical – DC/Low Frequency

Parameter/Equipment	Range	CMC[2] (±)	Comments
Electrical Simulation of Thermocouple Indicators[3] –			
Type E	(0 to 1000) ºC (32 to 1832) ºF	0.9 ºC 1.2 ºF	Fluke 741B
Type J	(0 to 1200) ºC (32 to 2192) ºF	0.9 ºC 1.2 ºF	
Type K	(0 to 1272) ºC (32 to 2500) ºF	0.9 ºC 1.4 ºF	
Type R	(0 to 1767) ºC (32 to 3213) ºF	1.7 ºC 2.9 ºF	
Type S	(0 to 1767) ºC (32 to 3213) ºF	1.7 ºC 2.9 ºF	
Type T	(0 to 400) ºC (32 to 752) ºF	0.9 ºC 1.4 ºF	

SUSPENDED

Parameter/Equipment	Range	CMC[2] (±)	Comments
Electrical Simulation of RTD Indicators and Indicating Systems[3] –			
Pt(385), 100 Ω	(0 to 400) ºC (400 to 800) ºC (32 to 752) ºF (752 to 1472) ºF	0.7 ºC 0.9 ºC 1.0 ºF 1.2 ºF	Fluke 741B
Pt(385), 1000 Ω	(0 to 400) ºC (400 to 630) ºC (32 to 752) ºF (752 to 1166) ºF	0.7 ºC 0.8 ºC 0.9 ºF 1.2 ºF	
Ni(672), 120 Ω	(0 to 260) ºC (32 to 500) ºF	0.7 ºC 0.8 ºF	

II. Mechanical

Parameter/Equipment	Range	CMC[2] (±)	Comments
Gauge Pressure[3] –			
Pneumatic	(0 to 500) psig	0.49 psig	Fluke 700G31 and Fluke 741B
Hydraulic	(0 to 10 000) psig	22 psig	Fluke 700P31 and Fluke 741B

SUSPENDED

III. Thermodynamics

Parameter/Equipment	Range	CMC[2] (±)	Comments
Temperature Sensors – Thermocouples[3]			
Types J and K	(35 to 260) ºC	1.2 ºC	Versitile 4-wire RTD probe, Fluke 741B and Hart Scientific dry block
Types J and K	(95 to 500) ºF	2.1 ºF	
Temperature Sensors – RTDs[3]			
Pt(385), 100 Ω	(35 to 260) ºC	1.1 ºC	Versitile 4-wire RTD probe, Fluke 741B and Hart Scientific dry block
Pt(385), 100 Ω	(95 to 500) ºF	1.9 ºF	

SUSPENDED

[1] This laboratory offers commercial calibration service and field calibration service.

[2] Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

[3] Field calibration service is available for this calibration. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the Calibration and Measurement Capability Uncertainty (CMC) found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

[4] This scope meets A2LA's *P112 Flexible Scope Policy*.

Accredited Laboratory

A2LA has accredited

ACETRONIC INDUSTRIAL CONTROLS INC.

Mississauga, Ontario, CANADA

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets R205 – Specific Requirements: Calibration Laboratory Accreditation Program. 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*).

SUSPENDED

Presented this 14th day of April 2021

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3665.01
Valid to December 31, 2022

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.