



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ACI CONTROLS, INC
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Cheektowaga, NY 14227
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CALIBRATION

Valid To: August 31, 2022

Certificate Number: 5856.01

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 Thermocouples ³ –			
Type B	1112 °F (1113 to 1551.2) °F (1551.3 to 1990.4) °F (1990.5 to 2429.6) °F (2429.7 to 2868.8) °F (2868.9 to 3308) °F	2.2 °F 1.5 °F 1.5 °F 1.5 °F 1.5 °F 1.5 °F	Fluke 724
Type E	-418 °F (-417 to 32) °F (33 to 482) °F (483 to 932) °F (933 to 1382) °F (1383 to 1832) °F	1.9 °F 1.5 °F 1.5 °F 1.5 °F 1.5 °F 1.5 °F	
Type J	-346 °F (-345 to 161.6) °F (161.7 to 669.2) °F (669.3 tot 1176.8) °F (1176.9 to 1684.4) °F (1684.5 to 2192) °F	2.1 °F 1.5 °F 1.5 °F 1.5 °F 1.5 °F 1.5 °F	

Parameter/Equipment	Range	CMC ² (±)	Comments
Electrical Simulation of Thermocouples ³ (cont)			
Type K	-328 °F (-327 to 237.8) °F (237.9 to 803.6) °F (803.7 to 1369.4) °F (1369.5 to 1935.2) °F (1935.3 to 2501) °F	2.7 °F 1.7 °F 1.7 °F 1.7 °F 1.7 °F 1.7 °F	Fluke 724
Type N	-328 °F (327 to 212) °F (213 to 752) °F (753 to 1292) °F (1293 to 1832) °F (1833 to 2372) °F	3.7 °F 1.9 °F 1.9 °F 1.9 °F 1.9 °F 1.9 °F	
Type R	-4 °F (-4 to 639.2) °F (639.3 to 1282.4) °F (1282.5 to 1925.6) °F (1925.7 to 2568.8) °F (2569.9 to 3212) °F	2.5 °F 2.0 °F 2.0 °F 2.0 °F 2.0 °F 2.0 °F	
Type S	-4 °F (-4 to 639.2) °F (639.3 to 1282.4) °F (1282.5 to 1925.6) °F (1925.7 to 2568.8) °F (2569.9 to 3212) °F	5.4 °F 4.4 °F 3.4 °F 3.4 °F 3.4 °F 3.4 °F	
Type T	-418 °F (-417 to -184) °F (-183 to 50) °F (51 to 284) °F (285 to 518) °F (519 to 752) °F	2.5 °F 1.7 °F 1.7 °F 1.7 °F 1.7 °F 1.7 °F	
Electrical Simulation of RTDs ³	-328 °F (-328 to 212) °F (213 to 1472) °F	0.2 °F 0.2 °F 0.2 °F	Fluke 724

¹ This laboratory offers commercial 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 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 actual 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

ACI CONTROLS, INC

Cheektowaga, NY

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).



Presented this 22nd day of July 2020.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5856.01
Valid to August 31, 2022
Revised July 30, 2021

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