



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

Loy Instrument, Inc.
8455 East 30th Street
Indianapolis, IN 46219

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

while demonstrating technical competence in the fields of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations and/or tests to which this accreditation applies.

L2079-1

Certificate Number

ANAB Approval

Certificate Valid: 03/12/2018-03/17/2019
Version No. 001 Issued: 03/12/2018



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. 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 17025:2005

Loy Instrument, Inc.

8455 East 30th Street
Indianapolis, IN 46219
Denise Grafe
317-890-0474

CALIBRATION

Valid to: March 17, 2019

Certificate Number: L2079-1

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
DC Current	(4 to 20) mA	18 μ A	Digital Multimeter
DC Voltage	(0 to 100) mV	5.5 μ V	
	(0 to 10) V	6.2 mV	
Thermocouple mV Simulation	Type K (0 to 2 500) °F	0.64 °F	Precision Process Calibrator
	Type J (0 to 2 190) °F	0.64 °F	
	Type R (32 to 3 000) °F	0.66 °F	
	Type S (32 to 3 200) °F	0.7 °F	
	Type T (-320 to 750) °F	0.68 °F	
	Type N (0 to 2 370) °F	0.65 °F	
	Type B (500 to 3 000) °F	0.68 °F	
	Type C (600 to 4 200) °F	0.7 °F	
	Type E (-300 to 1 830) °F	0.63 °F	





Thermodynamic

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Temperature Measure	32 °F	0.67 °F	Ice Bath and Type T Thermocouple AMS 2750E
Temperature System Accuracy Tests ¹	Types K, N (32 to 2 000) °F	2.5 °F	Reference Thermocouple with Readout unit AMS 2750E
Temperature Uniformity Surveys ¹	Types K, N (0 to 2 000) °F (2 000 to 2 400) °F	2.5 °F 4.2 °F	Reference Thermocouple with Digital Recorder AMS 2750E

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. L2079-1.

Vice President