



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

**Isocal LLC
117 Westwood Road
Woodbury, CT 06798**

Fulfills the requirements of

ISO/IEC 17025:2017

and

ANSI/NCSL Z540-1-1994 (R2002)

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.

Jason Stine, Vice President

Expiry Date: 02 June 2027

Certificate Number: AC-3213



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

AND

ANSI/NCSL Z540-1-1994 (R2002)

Isocal LLC

117 Westwood Rd.
Woodbury, CT 06798
Donald Germain, Jr.

CALIBRATION

ISO/IEC 17025 Accreditation Granted: **02 June 2025**

Certificate Number: **AC-3213**

Certificate Expiry Date: **02 June 2027**

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
DC Voltage Measure ¹	Up to 100 mV (0.1 to 3) V (3 to 30) V (30 to 300) V	0.013 mV 0.14 mV 0.56 mV 37 mV	Comparison to Fluke 753 Process Calibrator
DC Voltage Source ¹	Up to 100 mV (0.1 to 1) V (1 to 15) V	0.015 mV 0.13 mV 0.96 mV	Comparison to Fluke 753 Process Calibrator
AC Voltage Measure ¹ 50/60 Hz	Up to 3 V (3 to 30) V (30 to 300) V	0.011 V 0.074 V 0.91 V	Comparison to Fluke 753 Process Calibrator
DC Current Measure ¹	Up to 30 mA (30 to 100) mA	0.005 2 mA 0.029 mA	Comparison to Fluke 753 Process Calibrator
DC Current Source ¹	Up to 21 mA	0.003 7 mA	Comparison to Fluke 753 Process Calibrator
Resistance Measure ¹	Up to 10 Ω (10 to 100) Ω (100 to 1 000) Ω (1 to 10) k Ω	0.02 Ω 0.036 Ω 0.18 Ω 2.8 Ω	Comparison to Fluke 753 Process Calibrator

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Resistance Source ¹	Up to 10 Ω (10 to 100) Ω (100 to 1000) Ω (1 to 10) k Ω	0.012 Ω 0.028 Ω 0.29 Ω 3.4 Ω	Comparison to Fluke 753 Process Calibrator
Electrical Simulation of RTD Indicators ¹	4 Wire (-180 to 780) $^{\circ}\text{C}$ 3 Wire (-180 to 780) $^{\circ}\text{C}$	0.42 $^{\circ}\text{C}$ 0.42 $^{\circ}\text{C}$	Comparison to Fluke 753 Process Calibrator
Electrical Simulation of Thermocouple Indicating Devices ¹	Type K (-180 to -100) $^{\circ}\text{C}$ (-100 to 500) $^{\circ}\text{C}$ (500 to 1 000) $^{\circ}\text{C}$ (1 000 to 1 250) $^{\circ}\text{C}$ Type J (0 to 400) $^{\circ}\text{C}$ (400 to 800) $^{\circ}\text{C}$ Type N (0 to 500) $^{\circ}\text{C}$ (500 to 1 000) $^{\circ}\text{C}$ (1 000 to 1 250) $^{\circ}\text{C}$ Type T (-200 to -100) $^{\circ}\text{C}$ (-100 to 0) $^{\circ}\text{C}$ (0 to 200) $^{\circ}\text{C}$	0.73 $^{\circ}\text{C}$ 0.38 $^{\circ}\text{C}$ 0.4 $^{\circ}\text{C}$ 0.63 $^{\circ}\text{C}$ 0.22 $^{\circ}\text{C}$ 0.26 $^{\circ}\text{C}$ 0.35 $^{\circ}\text{C}$ 0.37 $^{\circ}\text{C}$ 0.42 $^{\circ}\text{C}$ 0.58 $^{\circ}\text{C}$ 0.29 $^{\circ}\text{C}$ 0.25 $^{\circ}\text{C}$	Comparison to Fluke 753 Process Calibrator

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:

- 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.



Jason Stine, Vice President