



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Heraeus Electro-Nite Co., LLC

**541 S. Industrial Drive
Hartland, WI 53029**

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.

A handwritten signature in black ink, appearing to be 'Jason Stine', is positioned above a horizontal line.

Jason Stine, Vice President

Expiry Date: 27 May 2026

Certificate Number: AC-1294



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

Heraeus Electro-Nite Co., LLC

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CALIBRATION

Valid to: **May 27, 2026**

Certificate Number: **AC-1294**

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
DC Voltage - Measure	Up to 1 V	0.1 mV	Keysight 3458A Multimeter
DC Voltage – Measure ¹	Up to 200 mV	0.49 mV	Checkmate IV CX Calibrator
Electrical Simulation of Temperature Measuring Systems Type B	(1 800 to 3 050) °F IPTS 48	1.1 °F	Fluke 9101 Ice Point Bath, Agilent 34420A Multimeter
	(1 800 to 3 050) °F IPTS 68	0.73 °F	
	(2 450 to 3 050) °F ITS 90	1.1 °F	
	(1 350 to 1 650) °C IPTS 48	0.67 °C	
Electrical Simulation of Temperature Measuring Systems ¹ Type B	(1 350 to 1 650) °C IPTS 68	0.42 °C	Checkmate IV CX Simulator
	(1 350 to 1 650) °C ITS 90	0.71 °C	
	(2 450 to 3 050) °F IPTS 48	3.4 °F	
	(2 450 to 3 050) °F IPTS 68	3.4 °F	
Electrical Simulation of Temperature Measuring Systems ¹ Type K	(2 450 to 3 050) °F ITS 90	3.3 °F	Fluke 9101 Ice Point Bath, Agilent 34420A Multimeter
	(1 350 to 1 650) °C IPTS 48	1.8 °C	
	(1 350 to 1 650) °C IPTS 68	1.7 °C	
	(1 350 to 1 650) °C ITS 90	1.8 °C	
Electrical Simulation of Temperature Measuring Systems ¹ Type K	(800 to 2 250) °F IPTS 48	0.24 °F	Checkmate IV K Simulator
	(800 to 2 250) °F IPTS 68	0.29 °F	
	(800 to 2 250) °F ITS 90	0.25 °F	
	(450 to 1 225) °C IPTS 48	0.14 °C	
Electrical Simulation of Temperature Measuring Systems ¹ Type K	(450 to 1 225) °C IPTS 68	0.17 °C	
	(450 to 1 225) °C ITS 90	0.14 °C	
	(800 to 2 250) °F IPTS 48	3.2 °F	
Electrical Simulation of Temperature Measuring Systems ¹ Type K	(800 to 2 250) °F IPTS 68	3.1 °F	
	(800 to 2 250) °F ITS 90	3.6 °F	

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Electrical Simulation of Temperature Measuring Systems ¹ Type K	(450 to 1 225) °C IPTS 48	1.7 °C	Checkmate IV K Simulator
	(450 to 1 225) °C IPTS 68	1.8 °C	
	(450 to 1 225) °C ITS 90	1.7 °C	
Electrical Simulation of Temperature Measuring Systems Type R	(2 450 to 3 050) °F IPTS 48	0.55 °F	Fluke 9101 Ice Point Bath, Agilent 34420A Multimeter
	(2 450 to 3 050) °F IPTS 68	0.87 °F	
	(2 450 to 3 050) °F ITS 90	0.55 °F	
Electrical Simulation of Temperature Measuring Systems ¹ Type R	(1 350 to 1 650) °C IPTS 48	0.32 °C	Checkmate IV CX Simulator
	(1 350 to 1 650) °C IPTS 68	0.76 °C	
	(1 350 to 1 650) °C ITS 90	0.33 °C	
Electrical Simulation of Temperature Measuring Systems ¹ Type R	(2 450 to 3 050) °F IPTS 48	3.5 °F	Checkmate IV CX Simulator
	(2 450 to 3 050) °F IPTS 68	3.2 °F	
	(2 450 to 3 050) °F ITS 90	3.2 °F	
Electrical Simulation of Temperature Measuring Systems Type S	(1 950 to 3 050) °F IPTS 48	1.1 °F	Fluke 9101 Ice Point Bath, Agilent 34420A Multimeter
	(2 450 to 3 050) °F IPTS 68	1.8 °F	
	(2 450 to 3 050) °F ITS 90	1.1 °F	
Electrical Simulation of Temperature Measuring Systems ¹ Type S	(1 260 to 1 650) °C IPTS 48	0.59 °C	Checkmate IV CX Simulator
	(1 350 to 1 650) °C IPTS 68	0.37 °C	
	(1 350 to 1 650) °C ITS 90	0.63 °C	
Electrical Simulation of Temperature Measuring Systems ¹ Type S	(2 450 to 3 050) °F IPTS 48	3.2 °F	Checkmate IV CX Simulator
	(2 450 to 3 050) °F IPTS 68	3.9 °F	
	(2 450 to 3 050) °F ITS 90	3.3 °F	
Electrical Simulation of Temperature Measuring Systems ¹ Type S	(1 350 to 1 650) °C IPTS 48	2 °C	Checkmate IV CX Simulator
	(1 350 to 1 650) °C IPTS 68	1.9 °C	
	(1 350 to 1 650) °C ITS 90	2 °C	

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. Calibration services are provided for equipment manufactured by Heraeus Electro-Nite only.
3. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1294.



Jason Stine, Vice President