



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Organization of:

Pyro Service Company
25812 John R Road, Madison Heights, MI 48071

*and hereby declares that the Organization is accredited in accordance with
the recognized International Standard:*

ISO/IEC 17025:2017

Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

Electrical, Thermodynamic, and Time & Frequency Calibration
(As detailed in the supplement)

Accreditation claims for conformity assessment activities shall only be made from the addresses referenced within this certificate and shall apply solely to those activities identified in the related scope. This Accreditation is granted subject to the Accreditation Body rules governing the Accreditation referred to above, and the Organization hereby commits to observing and complying with those rules in their entirety.

For PJLA:

Tracy Szerszen
President

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Initial Accreditation Date:

December 5, 2002

Issue Date:

January 17, 2025

Expiration Date:

March 31, 2027

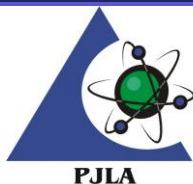
Accreditation No.:

59165

Certificate No.:

L25-35

*The validity of this certificate is maintained through ongoing assessments based
on a continuous accreditation cycle. The validity of this certificate should be
confirmed through the PJLA website: www.pjllabs.com*



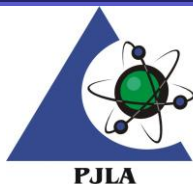
Certificate of Accreditation: Supplement

Pyro Service Company

25812 John R Road, Madison Heights, MI 48071
Contact Name: Gerry Hambright Jr. Phone: 248-547-2552

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ($\pm$)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	LOCATION OF ACTIVITY
Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-128 °C to 1 315 °C	0.25 °C	Electrical Measurement of Thermocouple Input, Fluke 7526A	WI 5.4D	F
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	-17 °C to 1315 °C	0.16 °C			F
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-17 °C to 871 °C	0.18 °C			F
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	-17 °C to 982 °C	0.18 °C			F
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-184°C to 371 °C	0.2 °C			F
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	0 °C to 1 648 °C	0.45 °C			F
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	0 °C to 1 648 °C	0.34 °C			F
	Temperature Calibration, Indication and Control Equipment used with RTD Pt 385, 100 Ω	-17 °C to 315°C	0.074 °C			F
	Temperature Calibration, Indication and Control Equipment used with RTD Pt 3926, 100 Ω	-17 °C to 315°C	0.042 °C			F



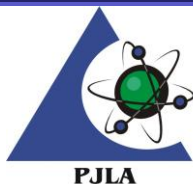
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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Pt 385, 200 Ω	-17 °C to 315°C	0.084 °C	Electrical Measurement of Thermocouple Input, Fluke 7526A	WI 5.4D	F
	Temperature Calibration, Indication and Control Equipment used with RTD Pt 385, 1000 Ω	-17 °C to 315°C	0.048 °C			F
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-128 °C to 1 315 °C	0.25 °C	Electrical Simulation of Thermocouple Output, Fluke 7256A		F
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	-17 °C to 1 315 °C	0.16 °C			F
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	-17 °C to 871 °C	0.18 °C			F
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	-17 °C to 982 °C	0.18 °C			F
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-184 °C to 371 °C	0.2 °C			F
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	0 °C to 1 648 °C	0.45 °C			F
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	0 °C to 1 648 °C	0.34 °C			F



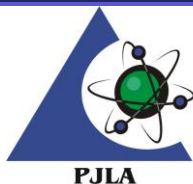
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Electrical	Temperature Calibration, Indication and Control Equipment used with RTD Pt 385, 100 Ω	-17 °C to 315°C	0.089 °C	Electrical Simulation of RTD Output Fluke 7256A	WI 5.4D	F
	Temperature Calibration, Indication and Control Equipment used with RTD Pt 3926, 100 Ω	-17 °C to 315°C	0.065 °C			F
	Temperature Calibration, Indication and Control Equipment used with RTD Pt 385, 200 Ω	-17 °C to 315°C	0.06 °C			F
	Temperature Calibration, Indication and Control Equipment used with RTD Pt 385, 1000 Ω	-17 °C to 315°C	0.07 °C			F
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-100 °C to 400 °C	0.4 °C	Electrical Measurement of Thermocouple Input, Fluke 741B/753		FO
		400 °C to 1 200 °C	0.8 °C			
		1 200 °C to 1 315 °C	1 °C			
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	-100 °C to 900 °C	0.8 °C			FO
		900 °C to 1 300 °C	0.9 °C			
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	0 °C to 800 °C	0.5 °C			FO
		800 °C to 1 200 °C	0.8 °C			
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	-200 °C to -100 °C	0.8 °C			FO
		-100 °C to 600 °C	0.8 °C			
		600 °C to 1 000 °C	0.6 °C			
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-200 °C to 0 °C	0.9 °C			FO
		0 °C to 400 °C	0.4 °C			



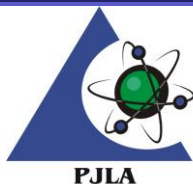
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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	100 °C to 1 650 °C	1.5 °C	Electrical Measurement of Thermocouple Input, Fluke 741B/753	WI 5.4D	FO
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	100 °C to 200 °C	2.1 °C			FO
		200 °C to 1 400 °C	1.4 °C			
		1 400 °C to 1 650 °C	1.7 °C			
	Temperature Calibration, Indication and Control Equipment used with RTD Pt 385, 100 Ω	0 °C to 315°C	0.8 °C	Electrical Measurement of RTD Input, Fluke 741B/753		FO
	Temperature Calibration, Indication and Control Equipment used with RTD Pt 3926, 100 Ω	0 °C to 315°C	0.8 °C			FO
	Temperature Calibration, Indication and Control Equipment used with RTD Pt 385, 1000 Ω	0 °C to 315°C	0.8 °C			FO
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type K	-100 °C to 400 °C	0.4 °C	Electrical Simulation of Thermocouple Output, Fluke 741B/753		FO
		400 °C to 1 200 °C	0.9 °C			
		1 200 °C to 1 315 °C	1.1 °C			
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type N	-100 °C to 900 °C	0.8 °C	FO		
		900 °C to 1 300 °C	0.9 °C			
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type J	0 °C to 800 °C	0.5 °C	FO		
		800 °C to 1 200 °C	0.8 °C			



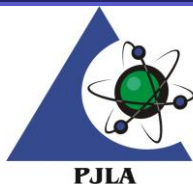
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Electrical	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type E	-200 °C to -100 °C	0.8 °C	Electrical Simulation of Thermocouple Output, Fluke 741B/753	WI 5.4D	FO
		-100 °C to 600 °	0.8 °C			
		600 °C to 1 000 °C	0.6 °C			
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type T	-200 °C to 0 °C	0.9 °C			FO
		0 °C to 400 °C	0.4 °C			
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type R	100 °C to 1 650 °C	1.5 °C			FO
	Temperature Calibration, Indication and Control Equipment used with Thermocouple Type S	100 °C to 200 °C	2.1 °C	Electrical Simulation of RTD Output, Fluke 741B/753	WI 5.4z	FO
		200 °C to 1 400 °C	1.4 °C			
		1 400 °C to 1 650 °C	1.7 °C			
	Temperature Calibration, Indication and Control Equipment used with RTD Pt 385, 100 Ω	0 °C to 315°C	0.5 °C			FO
	Temperature Calibration, Indication and Control Equipment used with RTD Pt 3926, 100 Ω	0 °C to 315°C	0.4 °C			FO
	Temperature Calibration, Indication and Control Equipment used with RTD Pt 385, 1000 Ω	0 °C to 315°C	0.5 °C			FO
	Equipment to Measure DC Voltage	0 mV to 1 000 mV	0.25 mV			F
		10 V	2.5 mV			
		100 V	7 mV			
	Equipment to Measure DC Current	0 to 50 mA	7 μ A			F



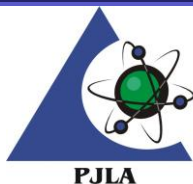
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Electrical	Equipment to Measure DC Voltage	0 mV to 1 100 mV	0.05 % + 0.165 mV	Fluke 741B/753	WI 5.4z	FO
		1.1 V to 11 V	0.05 % + 0.55 mV			
	Equipment to Measure DC Current	0 mA to 110 mA	0.02 % + 16 μ A			FO
	Equipment to Measure Resistance	0 Ω to 110 Ω	0.075 % + 0.055 Ω			FO
		110 Ω to 1 100 Ω	0.075 % + 5.5 Ω			
	Equipment to Output DC Voltage	0 mV to 1 100 mV	0.015 % + 6 μ V			FO
		1.1 V to 15 V	0.015 % + 1 mV			
	Equipment to Output DC Current	0 mA to 22 mA	0.02 % + 3 μ A			FO
Time & Frequency	Stopwatch/Timer Calibration	0 Ω to 110 Ω	0.075 % + 0.055 Ω	Traceable 94461-27	WI 5.4t	FO
		110 Ω to 1 100 Ω	0.075 % + 0.55 Ω			
Thermodynamic	Equipment to Measure Humidity	Up to 100 % RH	1 % RH	Rotronic HP32 w/ HC2A-S	WI 5.4x	FO
	Equipment to Measure temperature	-50 $^{\circ}$ C to 100 $^{\circ}$ C	0.26 $^{\circ}$ C			FO
	Temperature Measurement, Temperature Uniformity Survey, Thermocouple Type K	-100 $^{\circ}$ C to 1 200 $^{\circ}$ C	1.5 $^{\circ}$ C	Datalogger/recorder w/ SLE TCs	WI 5.4h	O
	Temperature Measurement, System Accuracy Test, Thermocouple Type K	0 to 1 200 $^{\circ}$ C	1.8 $^{\circ}$ C	Fluke 741B/753 w/ SLE TC	WI-5.4g	O
	Temperature Measurement, System Accuracy Test, Thermocouple Type N	0 to 1 200 $^{\circ}$ C	1.9 $^{\circ}$ C			O
	Temperature Measurement, Thermocouple Type S	0 to 1 260 $^{\circ}$ C	0.51 $^{\circ}$ C	Fluke 7526A w/ Type S Secondary Standard	WI 5.4i	F



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The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.

1. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.

2. Location of activity:

Location

F

Conformity assessment activity is performed at the CABs fixed facility

O

Conformity assessment activity is performed onsite at the CABs customer location

3. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location.