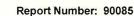


Report of Calibration





5211 Industrial Road, Fort Wayne, IN 46825 www.pyromation.com 260.484.2580

Calibration Date:	04/21/2020
Calibration Due:	04/21/2022
SO Number:	1342712

ASTM E230/E230M-17 Standard Tolerance

Submitted By: Illiana Instrumentation Service Schererville, IN 46375 PO Number: 4071

Type S Thermocouple Lot Calibration S24R-18-3

ltem	Serial No	Target	Actual	Reading	Correction	Tolerance	Status	Immersion	Uncertainty
		(°F)	(°F)	(°F)	(°F)	(°F)		(in)	(°F)
1	Ref 1206	0	-0.3	-0.1	-0.2	N/A	As Found	6	1.0
		200	200.0	199.8	0.2	± 2.7	In Tolerance	6	1.0
		400	399.9	399.7	0.2	± 2.7	In Tolerance	6	1.0
		600	600.0	599.6	0.4	± 2.7	In Tolerance	8	1.0
		800	800.1	799.4	0.7	± 2.7	In Tolerance	17	1.4
		1000	1000.0	999.3	0.7	± 2.7	In Tolerance	17	1.4
		1200	1199.5	1198.6	0.9	± 2.9	In Tolerance	17	1.4
		1400	1400.0	1399.5	0.5	± 3.4	In Tolerance	17	1.4
		1600	1599.9	1599.5	0.4	± 4.0	In Tolerance	17	1.4
		1800	1799.2	1798.7	0.5	± 4.5	In Tolerance	17	1.4
		2000	2000.1	1999.9	0.2	± 4.9	In Tolerance	17	1.4

Tolerance:

Remarks: Reference: 1206 No published tolerance for Type S below 32 °F. The correction must be added algebraically to the UUT reading to obtain the correct value.

Equipment and Standards Used

ID Number	Manufacturer
03-2401	Hart Scientific
03-2787	Agilent
03-3469	Pyromation

As Found: In Tolerance

Model 5626 3458A SPEC 621-00

As Left: In Tolerance

Description IPRT Working Standard 8 1/2 Digit Digital Multimeter Type S Reference Standard

Calibration Due 07/21/2020 10/24/2020 06/07/2020

Environmental Conditions at time of Calibration:

Temperature: 23 °C [73 °F]

Relative Humidity: 20%

Calibration performed by: Lindi Bunn, Metrology Technician

The temperatures written in this report are those defined by the International Temperature Scale of 1990 (ITS-90).

Procedure Used: WI-525-37 Rev 5 which is based, in part on ASTM E220-19

The combined standard uncertainty includes the standard uncertainty reported for the standard, and the measurement process. No allowance is included in the uncertainty for thermocouple drift and inhomogeneity. The combined standard uncertainty is multiplied by a coverage factor of 2 to give an expanded uncertainty, which defines and interval having a level of confidence of approximately 95 percent. The expanded uncertainty presented in this report is consistent with the JCGM100:2008 Guide to the Expression of Uncertainty in Measurement. The expanded uncertainty is not to be confused with a tolerance limit for the user during application. Uncertainties are not included in the determination of acceptance.

For purposes of determining conformance with these specifications, an observed value or a calculated value shall be rounded in accordance with the rounding method of ASTM Practice E29-19

The standards of Pyromation Laboratory are traceable to the International System of Units (SI) through NIST or other National Metrology Institute, and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of uncertainty reported by this laboratory. The laboratory report number identified above is the unique report number to be used in referencing measurement traceability for the items identified in this report only.

This calibration is compliant to ISO/IEC 17025:2017. This calibration report applies only to the items described. It must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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