

Report Number: 87442

Report of Calibration



ITEM 1684

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Calibration Date: 09/30/2019

SO Number: 1319899

Illiana Instrumentation Service Merrillville, IN 46410 Submitted By: PO Number: 4016

Type T Thermocouple Lot Calibration						Tol	erance: SAE AN	1S2750E	
T20-1-507			14						
						Sp	ool/Coil: 660229	(500 ft.)	
Item	Serial No	Target	Actual	Reading	Correction	Tolerance	Status	Immersion	Uncertainty
		(°F)	(°F)	(°F)	(°F)	(°F)		(in)	(°F)
BEG		-320	-320.2	-318.8	-1.4	± 5.3	In Tolerance	9	0.58
		-103	-103.0	-102.1	-0.9	± 1.8	In Tolerance	6	0.54
		32	32.0	32.0	0.0	± 4.0	In Tolerance	6	0.54
		100	100.2	100.2	0.0	± 4.0	In Tolerance	6	0.54
END		-320	-320.2	-318.2	-2.0	± 5.3	In Tolerance	9	0.58
		-103	-103.0	-101.9	-1.1	± 1.8	In Tolerance	6	0.54
		32	32.0	32.0	0.0	± 4.0	In Tolerance	6	0.54
		100	100.2	100.0	0.2	± 4.0	In Tolerance	6	0.54
AVG		-320			-1.7				
		-103			-1.0				
		32			0.0				
		100			0.1				

Remarks:

The correction must be added algebraically to the UUT reading to obtain the correct value.

		Equipme	nt and Standards Used	
ID Number 03-1268 03-2639 03-3572	Manufacturer Hewlett Packard Hart Scientific Hart Scientific	Model 3458A 5626 5626	Description 8 1/2 Digit Digital Multimeter IPRT Working Standard IPRT Working Standard	Calibration Due 01/30/2020 01/25/2020 01/24/2020

Environmental Conditions at time of Calibration:

Temperature: 23 °C [73 °F]

Relative Humidity: 35%

Calibration performed by: Lindi Bunn, Metrology Technicia

As Found: In Tolerance

As Left: In Tolerance

Procedure Used: OP-525-06 Rev 6 which is based, in part on ASTM E220-13 and SAE AMS2750E

The temperatures written in this report are those defined by the International Temperature Scale of1990 (ITS-90).

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 of2 to give an expanded uncertainty, which defines and interval having a level of confidence of approximately95 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 E29-13

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 17025:2005. 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 US. Government.

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