



Report of Calibration



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Report Number: 102538

1745

Calibration Date: 11/18/2022

Submitted By: Iliana Instrumentation Service Schererville, IN 46375

SO Number: 1445768

PO Number: 4356

Platinum Resistance Thermometer
R5T185L484-012-11B-15-T3P072-3

Tolerance: IEC 60751:2022 1/5 Class B

Item	Serial / Reference	Target (°F)	Actual (°F)	Reading (°F)	Reading (Ω)	Correction (°F)	Tolerance (± °F)	U _c (k = 2) (± °F)	TUR	Acceptance (± °F)	Status (in/out)
1	EFD8B0	-22	-22.15	-22.24	88.168	0.09	0.16	0.07	N:1	0.14	in
		0	0.00	-0.07	93.020	0.07	0.14	0.07	2	0.13	in
		50	49.99	49.94	103.890	0.05	0.13	0.07	2	0.11	in
		100	99.84	99.82	114.644	0.02	0.18	0.07	2	0.16	in
		300	299.94	299.87	156.884	0.07	0.38	0.07	5	0.38	in

Remarks:

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

Equipment and Standards Used

ID Number	Manufacturer	Model	Description
03-2399	Hart Scientific	5626	SSPRT Working Standard
03-2787	Agilent	3458A	8 1/2 Digit Digital Multimeter

Calibration Due
01/20/2023
01/04/2023

Environmental Conditions at time of Calibration: Temperature: 23 °C [73 °F] Relative Humidity: 18%

Procedure Used: WI-525-38 Rev 5 which is based on ASTM E644-19

Angela *C. Chester*

DUT Condition: Initial Calibration

Metrology Technician

Authorized by

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.

The combined standard uncertainty includes the standard uncertainty reported for the standard, and the measurement process. The combined standard uncertainty is multiplied by a coverage factor of 2 to give an expanded uncertainty, which defines an 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.

The DUT Acceptance tolerance is based on the DUT specification, the measurement uncertainty, the resulting test uncertainty ratio (TUR), and the maximum allowable probability of false accept risk (PFA, assumed to be 2%). In cases where the TUR ≥ 4:1, the acceptance tolerance = the DUT tolerance (guard bands are not necessary to achieve a PFA of 2%). In cases where the TUR < 4:1, the acceptance limits are reduced by guard bands calculated using method 6 of NCSLI Z540.3. Refer to NCSLI Z540.3 or Pyromation SD-525-15 for additional information.

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.

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