					-	
JH Metrology Co, Inc.	<ul> <li>1801 Hicks Road, Unit E</li> </ul>	Rolling Meadows, Illinois	60008 • Phone:	(847) 991-0290 •	Fax:	(847) 991-0348

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Accurate Calibration & Repair	PO #: 2305
1924 Pinnacle Drive	Reference #: 2354286Rg17025
Aurora, IL 60504	Account #: 00317
	SO #: 54286
Instrument	Identification
Instrument Id: 82334	Location: Secondary Standard
Noun: Multifunction Calibrator, 2 Channel	Model: CL525
Mfr: Omega	Serial #: 82334
Accuracy: See manufacturer's specifications	
Certification	n Information
Reason For Service: Calibration with Data	Technician: Appeaelle Bullock
Type Of Calibration: Accredited 17025	Cal Date: 28 SEP 23
As Found Condition: In Tolerance	Cal Due: 28 DEC 23
As Left Condition: Left As Found	Temperature: 23.0 °C
Procedure: MFR Manual:	Humidity: 43.0 %
Technician Remarks: Calibrated per AMS 2750 G at Custo	mer specified calibration points.

- · No sampling plan or other procedure was used for this calibration. Measurements and information on this certificate are valid at time of calibration only and any number of factors may cause the calibrated item to drift out of tolerance before the assigned calibration interval.
- The calibration results published in this certificate were obtained using test equipment that has been calibrated by Certified Standards and are traceable through the National Institute of Standards and Technology (NIST), derived from natural physical constants, from ratio measurements, or compared to consensus standards to the International System of Units (SI).
- Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2. J.H. Metrology Co., Inc. does not apply the reported calculated measurement uncertainty to manufacturer or other sources of tolerances/specifications to determine the instrument pass or fail status. (Uncertainties are listed separately for each test point.) It is the responsibility of the Customer to consider measurement uncertainty when determining the instrument suitability.
- (!) Designates that the expanded uncertainty of measurement does not meet the 95% confidence level.
- This certificate may contain data that is not covered by our 17025 Scope of Accreditation and are marked with an asterisk (\*). Pass/Fail tests are not accredited. Calibration Standards listed on this Certificate of Calibration with a Due Date of 00 0000 are support items that do not require calibration (NPCR).
- J.H. Metrology Co., Inc.'s Calibration Control System complies with applicable requirements of ANSI Z540-1, ISO 9001:2015 (by DQS, Inc), ISO/IEC 17025:2017 (by A2LA), and when required contractually, 10CFR21.
- The results contained herein relate only to the item calibrated. This certificate shall not be reproduced except in full, without the written permission of J.H. Metrology Co., Inc.

Metrology Technician

Neil Willert, President Quality Approval Date: Sep 29, 2023





**Customer Information** 



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🖊 In Tolerance 🛛 🗶	Out of Tolerance	(	C <mark>alib</mark>	ration Data			
Range	Nominal	As Found	dl	As Left	Min	Max	Uncertainty
		Volta	ge O	utput Accuracy			
-20 to 200 n	νV -20.000	-20.00159	<ul> <li>✓</li> </ul>	As Found	-20.004	-19.996	0.00063 mV
	0.000	-0.00054	<ul> <li>Image: A start of the start of</li></ul>	As Found	-0.002	0.002	0.00059 mV
	10.000	9.99965	<ul> <li>Image: A start of the start of</li></ul>	As Found	9.997	10.003	0.00061 mV
	50.000	50.00008	<ul> <li>✓</li> </ul>	As Found	49.993	50.007	0.00073 mV
	100.000	100.00111	<ul> <li>Image: A start of the start of</li></ul>	As Found	99.988	100.012	0.00097 mV
	200.000	200.0054	<ul> <li>Image: A start of the start of</li></ul>	As Found	199.978	200.022	0.0016 mV
-0.2 to 2	V -0.20000	-0.2000106	<ul> <li>Image: A start of the start of</li></ul>	As Found	-0.20003	-0.19997	0.0000060 V
	-0.10000	-0.10000598	<ul> <li>Image: A start of the start of</li></ul>	As Found	-0.10002	-0.09998	0.0000059 V
	0.00000	-0.00000206	<ul> <li>Image: A start of the start of</li></ul>	As Found	-0.00001	0.00001	0.000058 V
	0.50000	0.5000092	<ul> <li>Image: A start of the start of</li></ul>	As Found	0.49994	0.50006	0.0000064 V
	1.00000	1.0000181	<ul> <li>Image: A start of the start of</li></ul>	As Found	0.99989	1.00011	0.0000077 V
	2.00000	2.000053	<ul> <li>Image: A start of the start of</li></ul>	As Found	1.99979	2.00021	0.000016 V
-2 to 20	V -2.00000	-2.000094	<ul> <li>Image: A start of the start of</li></ul>	As Found	-2.00028	-1.99972	0.000060 V
	-1.00000	-1.0000539	<ul> <li>Image: A start of the start of</li></ul>	As Found	-1.00018	-0.99982	0.000058 V
	0.00000	-0.00001294	<ul> <li>Image: A start of the start of</li></ul>	As Found	-0.00008	0.00008	0.000058 V
	5.00000	5.000089	<ul> <li>Image: A start of the start of</li></ul>	As Found	4.99942	5.00058	0.000064 V
	10.00000	10.000194	<ul> <li>Image: A start of the start of</li></ul>	As Found	9.99892	10.00108	0.000077 V
	20.00000	20.00054	<ul> <li>Image: A start of the start of</li></ul>	As Found	19.99792	20.00208	0.00020 V
	·	Volt	age li	nput Accuracy			
-20 to 200 n	-20.000	-19.999	<ul> <li>✓</li> </ul>	As Found	-20.005	-19.995	0.00090 mV
	-10.000	-10.000	<ul> <li>Image: A start of the start of</li></ul>	As Found	-10.004	-9.996	0.00083 mV
	0.000	0.000	<ul> <li>Image: A start of the start of</li></ul>	As Found	-0.003	0.003	0.00077 mV
	50.000	49.999	<ul> <li>Image: A start of the start of</li></ul>	As Found	49.993	50.007	0.0012 mV
	100.000	99.998	<ul> <li>Image: A start of the start of</li></ul>	As Found	99.987	100.013	0.0016 mV
	200.000	199.998	<ul> <li>Image: A start of the start of</li></ul>	As Found	199.977	200.023	0.0024 mV
-200 to 2000 n	vV -200.00	-199.99	<ul> <li>Image: A start of the start of</li></ul>	As Found	-200.04	-199.96	0.0063 mV
	-100.00	-99.99	<ul> <li>Image: A start of the start of</li></ul>	As Found	-100.03	-99.97	0.0060 mV
	0.00	0.00	<ul> <li>Image: A start of the start of</li></ul>	As Found	-0.02	0.02	0.0058 mV
	100.00	99.99	<ul> <li>Image: A start of the start of</li></ul>	As Found	99.97	100.03	0.0060 mV
	500.00	499.99	<ul> <li>Image: A start of the start of</li></ul>	As Found	499.93	500.07	0.0070 mV
	1000.00	999.99	<ul> <li>Image: A start of the start of</li></ul>	As Found	999.88	1000.12	0.0090 mV
	2000.00	1999.98	<ul> <li>Image: A start of the start of</li></ul>	As Found	1999.78	2000.22	0.014 mV
-2 to 20	V -2.0000	-1.9999	<ul> <li>Image: A start of the start of</li></ul>	As Found	-2.0004	-1.9996	0.000060 V
	-1.0000	-1.0000	<ul> <li>✓</li> </ul>	As Found	-1.0003	-0.9997	0.000059 V



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🖌 In Tolerance 🛛 🗶 Out	of Tolerance	(	Calib	ration Data			
Range	Nominal	As Found	d	As Left	Min	Max	Uncertaint
		Volta	age Ir	nput Accuracy			
	0.0000	0.0000	<ul> <li>✓</li> </ul>	As Found	-0.0002	0.0002	0.000058 V
	2.0000	1.9999	$\checkmark$	As Found	1.9996	2.0004	0.000060 V
	5.0000	4.9999	$\checkmark$	As Found	4.9993	5.0007	0.000063 V
	10.0000	9.9998	$\checkmark$	As Found	9.9988	10.0012	0.000072 V
	20.0000	19.9997	<ul> <li>Image: A start of the start of</li></ul>	As Found	19.9978	20.0022	0.00011 V
		mAn	ιρ Οι	Itput Accuracy	·		
0 to 50 mA	0.0000	0.00000022	<ul> <li>✓</li> </ul>	As Found	-0.0004	0.0004	0.000058 mA
	1.0000	1.0000294	<ul> <li>Image: A start of the start of</li></ul>	As Found	0.9995	1.0005	0.000062 mA
	5.0000	5.000052	<ul> <li>Image: A start of the start of</li></ul>	As Found	4.9991	5.0009	0.00015 mA
	10.0000	10.000237	<ul> <li>Image: A start of the start of</li></ul>	As Found	9.9986	10.0014	0.00023 mA
	30.0000	30.00054	$\checkmark$	As Found	29.9966	30.0034	0.0026 mA
	50.0000	50.00136	$\checkmark$	As Found	49.9946	50.0054	0.0038 mA
		mA	mp In	put Accuracy	i i		
-5 to 50 mA	-5.0000	-4.9996	<ul><li>✓</li></ul>	As Found	-5.0013	-4.9987	0.00026 mA
	1.0000	0.9999	<ul> <li>Image: A start of the start of</li></ul>	As Found	0.9994	1.0006	0.000076 mA
	5.0000	4.9998	<ul> <li>Image: A start of the start of</li></ul>	As Found	4.9990	5.0010	0.00026 mA
	10.0000	9.9995	<ul> <li>Image: A start of the start of</li></ul>	As Found	9.9985	10.0015	0.00046 mA
	30.0000	29.9993	<ul> <li>Image: A start of the start of</li></ul>	As Found	29.9966	30.0034	0.0023 mA
	50.0000	49.9983	$\checkmark$	As Found	49.9945	50.0055	0.0033 mA
•		Thermo	coup	le Input Accura	су		
Type J -210 to 1200°C	-190.0	-189.96	<ul> <li>Image: A start of the start of</li></ul>	As Found	-190.2	-189.8	0.0072 °C
RJ ext. @ 0.0°C	-50.0	-50.00	<ul> <li>Image: A start of the start of</li></ul>	As Found	-50.2	-49.8	0.0064 °C
	0.0	0.00	$\checkmark$	As Found	-0.2	0.2	0.0063 °C
	100.0	99.98	$\checkmark$	As Found	99.8	100.2	0.0063 °C
	300.0	299.98	<ul> <li>Image: A start of the start of</li></ul>	As Found	299.8	300.2	0.0063 °C
	600.0	599.95	$\checkmark$	As Found	599.7	600.3	0.0070 °C
	750.0	749.96	$\checkmark$	As Found	749.7	750.3	0.0082 °C
	1000.0	999.96	$\checkmark$	As Found	999.7	1000.3	0.0082 °C
	1200.0	1199.97	$\checkmark$	As Found	1199.7	1200.3	0.011 °C
Degrees F	32.0	31.9	<ul> <li>✓</li> </ul>	As Found	31.7	32.3	0.058 °F
Type K -270 to 1370°C	-160.0	-160.01	<ul> <li>✓</li> </ul>	As Found	-160.2	-159.8	0.049 °C
	-50.0	-50.03	<ul> <li>✓</li> </ul>	As Found	-50.2	-49.8	0.0070 °C
	0.0	-0.01	$\checkmark$	As Found	-0.2	0.2	0.0070 °C



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🖌 In Tolerance 🛛 🗶 Out	of Tolerance		Calib	ration Data			
Range	Nominal	As Foun	d	As Left	Min	Max	Uncertaint
		Thermo	ocoup	le Input Accurac	;y		
	100.0	100.01	<ul> <li>✓</li> </ul>	As Found	99.8	100.2	0.0070 °C
	300.0	299.95	<ul> <li>✓</li> </ul>	As Found	299.8	300.2	0.0070 °C
	500.0	500.00	<ul> <li>✓</li> </ul>	As Found	499.7	500.3	0.0070 °C
	700.0	700.00	<ul> <li>✓</li> </ul>	As Found	699.7	700.3	0.0080 °C
	900.0	899.97	<ul> <li>✓</li> </ul>	As Found	899.7	900.3	0.0080 °C
	1100.0	1100.01	<ul> <li>Image: A start of the start of</li></ul>	As Found	1099.7	1100.3	0.011 °C
	1260.0	1259.97	<ul> <li>Image: A start of the start of</li></ul>	As Found	1259.7	1260.3	0.013 °C
Degrees F	32.0	31.9	<ul> <li>Image: A start of the start of</li></ul>	As Found	31.7	32.3	0.059 °F
Type T -270 to 400°C	-260.0	-260.0	<ul> <li>Image: A start of the start of</li></ul>	As Found	-260.2	-259.8	0.091 °C
	-130.0	-130.01	<ul> <li>Image: A start of the start of</li></ul>	As Found	-130.11	-129.89	0.0080 °C
	-50.0	-50.00	<ul> <li>Image: A start of the start of</li></ul>	As Found	-50.12	-49.88	0.0071 °C
	0.00	-0.01	<ul> <li>Image: A start of the start of</li></ul>	As Found	-0.11	0.11	0.0070 °C
	100.00	100.00	<ul> <li>Image: A start of the start of</li></ul>	As Found	99.89	100.11	0.0070 °C
	200.00	199.98	<ul> <li>Image: A start of the start of</li></ul>	As Found	199.87	200.13	0.0064 °C
	300.00	300.00	<ul> <li>Image: A start of the start of</li></ul>	As Found	299.86	300.14	0.0070 °C
	400.00	399.98	<ul> <li>✓</li> </ul>	As Found	399.85	400.15	0.0070 °C
Degrees F	32.0	31.9	<ul> <li>Image: A start of the start of</li></ul>	As Found	31.8	32.2	0.058 °F
Type E -270 to 1000°C	-200.0	-199.97	<ul> <li>Image: A start of the start of</li></ul>	As Found	-200.2	-199.8	0.013 °C
	-100.0	-100.01	<ul> <li>Image: A start of the start of</li></ul>	As Found	-100.2	-99.8	0.0070 °C
	0.0	0.00	<ul> <li>Image: A start of the start of</li></ul>	As Found	-0.2	0.2	0.0062 °C
	50.0	49.99	<ul> <li>Image: A start of the start of</li></ul>	As Found	49.8	50.2	0.0062 °C
	100.0	100.02	<ul> <li>Image: A start of the start of</li></ul>	As Found	99.8	100.2	0.0070 °C
	200.0	199.98	<ul> <li>Image: A start of the start of</li></ul>	As Found	199.8	200.2	0.0070 °C
	400.0	399.96	<ul> <li>Image: A start of the start of</li></ul>	As Found	399.8	400.2	0.0070 °C
	500.0	499.97	<ul> <li>Image: A start of the start of</li></ul>	As Found	499.7	500.3	0.0070 °C
	750.0	749.98	<ul> <li>Image: A start of the start of</li></ul>	As Found	749.7	750.3	0.0090 °C
	1000.0	999.98	<ul> <li>Image: A start of the start of</li></ul>	As Found	999.7	1000.3	0.0090 °C
Degrees F	32.0	31.9	<ul> <li>✓</li> </ul>	As Found	31.7	32.3	0.058 °F
Type R -50 to 1760°C	150.0	150.02	<ul> <li>✓</li> </ul>	As Found	149.7	150.3	0.016 °C
	300.0	300.01	<ul> <li>✓</li> </ul>	As Found	299.7	300.3	0.016 °C
	500.0	500.06	<ul> <li>✓</li> </ul>	As Found	499.6	500.4	0.015 °C
	1000.0	999.97	<ul> <li>✓</li> </ul>	As Found	999.6	1000.4	0.014 °C
	1200.0	1199.97	<ul> <li>✓</li> </ul>	As Found	1199.68	1200.32	0.014 °C
	1760.0	1760.02	<ul> <li>✓</li> </ul>	As Found	1759.5	1760.5	0.017 °C



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Range	Nominal	As Foun	d	As Left	Min	Max	Uncertainty
		Thermo	ocoup	le Input Accura	су		
Type S -50 to 1760°C	170.0	170.07	<ul> <li>✓</li> </ul>	As Found	169.7	170.3	0.016 °C
	300.0	300.03	<ul> <li>Image: A start of the start of</li></ul>	As Found	299.7	300.3	0.016 °C
	500.0	499.97	<ul> <li>Image: A start of the start of</li></ul>	As Found	499.6	500.4	0.016 °C
	750.0	749.97	<ul> <li>Image: A start of the start of</li></ul>	As Found	749.6	750.4	0.015 °C
	1000.0	999.97	<ul> <li>Image: A start of the start of</li></ul>	As Found	999.6	1000.4	0.015 °C
	1760.0	1759.99	<ul> <li>Image: A start of the start of</li></ul>	As Found	1759.5	1760.5	0.019 °C
Type B 50 to 1820°C	920.0	919.98	<ul> <li>Image: A start of the start of</li></ul>	As Found	919.5	920.5	0.017 °C
	1200.0	1200.01	<ul> <li>Image: A start of the start of</li></ul>	As Found	1199.5	1200.5	0.015 °C
	1400.0	1399.93	<ul> <li>Image: A start of the start of</li></ul>	As Found	1399.4	1400.6	0.015 °C
	1600.0	1599.93	<ul> <li>Image: A start of the start of</li></ul>	As Found	1599.4	1600.6	0.016 °C
	1820.0	1819.98	<ul> <li>✓</li> </ul>	As Found	1819.4	1820.6	0.016 °C
Degrees F	2000.0	2000.0	<ul> <li>✓</li> </ul>	As Found	1999.2	2000.8	0.061 °F
Type N -270 to 1300°C	0.0	-0.01	<ul> <li>Image: A start of the start of</li></ul>	As Found	-0.2	0.2	0.0080 °C
	50.0	50.03	<ul> <li>Image: A start of the start of</li></ul>	As Found	49.8	50.2	0.0074 °C
	100.0	100.01	<ul> <li>✓</li> </ul>	As Found	99.8	100.2	0.0070 °C
	250.0	249.99	<ul> <li>✓</li> </ul>	As Found	249.8	250.2	0.0070 °C
	300.0	299.95	<ul> <li>✓</li> </ul>	As Found	299.8	300.2	0.0070 °C
	500.0	499.99	<ul> <li>✓</li> </ul>	As Found	499.7	500.3	0.0074 °C
	700.0	699.97	<ul> <li>✓</li> </ul>	As Found	699.7	700.3	0.0074 °C
	1000.0	999.97	<ul> <li>Image: A start of the start of</li></ul>	As Found	999.7	1000.3	0.0090 °C
	1300.0	1299.95	<ul> <li>Image: A start of the start of</li></ul>	As Found	1299.7	1300.3	0.011 °C
		Thermo	coupl	e Output Accura	асу	<u> </u>	
Type J -210 to 1200°C	-190.0	-190.048	<ul> <li>✓</li> </ul>	As Found	-190.12	-189.88	0.0072 °C
	0.00	-0.011	<ul> <li>✓</li> </ul>	As Found	-0.10	0.10	0.0063 °C
	100.0	99.998	<ul> <li>✓</li> </ul>	As Found	99.89	100.11	0.0063 °C
	300.0	300.013	<ul> <li>✓</li> </ul>	As Found	299.87	300.13	0.0063 °C
	500.0	499.951	<ul> <li>✓</li> </ul>	As Found	499.85	500.15	0.0070 °C
	1200.0	1200.014	<ul> <li>✓</li> </ul>	As Found	1199.78	1200.22	0.011 °C
Degrees F	32.0	31.981	<ul> <li>✓</li> </ul>	As Found	31.82	32.18	0.058 °F
Type K -270 to 1370°C	-160.0	-160.043	<ul> <li>✓</li> </ul>	As Found	-160.12	-159.88	0.049 °C
	0.0	-0.017	<ul> <li>✓</li> </ul>	As Found	-0.10	0.10	0.0070 °C
	100.0	99.982	<ul> <li>✓</li> </ul>	As Found	99.89	100.11	0.0070 °C
	300.0	300.028	<ul> <li>✓</li> </ul>	As Found	299.87	300.13	0.0070 °C
	500.0	499.988	<ul> <li>✓</li> </ul>	As Found	499.85	500.15	0.0070 °C

# 

## **Certificate of Calibration**

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✓ In Tolerance 🗴 Out	of Tolerance	(	Calib	ration Data			
Range	Nominal	As Found	d	As Left	Min	Max	Uncertainty
		Thermoo	oupl	e Output Accura	асу		
	1260.0	1260.023	<ul> <li>✓</li> </ul>	As Found	1259.77	1260.23	0.013 °C
Degrees F	32.0	31.970	<ul> <li>✓</li> </ul>	As Found	31.82	32.18	0.059 °F
Type T -270 to 400°C	-260.0	-260.088	<ul> <li>✓</li> </ul>	As Found	-260.2	-259.8	0.091 °C
	-130.0	-130.052	<ul> <li>✓</li> </ul>	As Found	-130.12	-129.88	0.0080 °C
	0.0	-0.016	<ul> <li>Image: A start of the start of</li></ul>	As Found	-0.10	0.10	0.0070 °C
	100.0	99.953	<ul> <li>Image: A start of the start of</li></ul>	As Found	99.89	100.11	0.0070 °C
	250.0	249.974	<ul> <li>Image: A start of the start of</li></ul>	As Found	249.87	250.13	0.0070 °C
	400.0	400.021	<ul> <li>Image: A start of the start of</li></ul>	As Found	399.86	400.14	0.0070 °C
Degrees F	32.0	31.972	<ul> <li>Image: A start of the start of</li></ul>	As Found	31.82	32.18	0.058 °F
Type E -270 to 1000°C	-200.0	-200.067	<ul> <li>Image: A start of the start of</li></ul>	As Found	-200.12	-199.88	0.013 °C
	0.0	-0.012	<ul> <li>Image: A start of the start of</li></ul>	As Found	-0.10	0.10	0.0062 °C
	100.0	99.961	<ul> <li>Image: A start of the start of</li></ul>	As Found	99.89	100.11	0.0070 °C
	250.0	250.002	<ul> <li>Image: A start of the start of</li></ul>	As Found	249.87	250.13	0.0070 °C
	500.0	500.026	<ul> <li>Image: A start of the start of</li></ul>	As Found	499.85	500.15	0.0070 °C
	1000.0	1000.009	<ul> <li>Image: A start of the start of</li></ul>	As Found	999.80	1000.20	0.0090 °C
Degrees F	32.0	31.979	<ul> <li>Image: A start of the start of</li></ul>	As Found	31.82	32.18	0.058 °F
Type R -50.0 to 1760°C	150.0	149.944	<ul> <li>Image: A start of the start of</li></ul>	As Found	149.78	150.22	0.016 °C
	500.0	499.862	<ul> <li>Image: A start of the start of</li></ul>	As Found	499.75	500.25	0.015 °C
	800.0	799.968	<ul> <li>Image: A start of the start of</li></ul>	As Found	799.72	800.28	0.015 °C
	1200.0	1199.976	<ul> <li>Image: A start of the start of</li></ul>	As Found	1199.68	1200.32	0.014 °C
	1500.0	1499.921	<ul> <li>Image: A start of the start of</li></ul>	As Found	1499.66	1500.34	0.017 °C
	1700.0	1699.983	<ul> <li>Image: A start of the start of</li></ul>	As Found	1699.63	1700.37	0.017 °C
Type S -50 to 1760°C	170.0	169.840	<ul> <li>Image: A start of the start of</li></ul>	As Found	169.78	170.22	0.016 °C
	500.0	500.001	<ul> <li>Image: A start of the start of</li></ul>	As Found	499.75	500.25	0.016 °C
	800.0	799.985	<ul> <li>Image: A start of the start of</li></ul>	As Found	799.72	800.28	0.015 °C
	1200.0	1199.948	<ul> <li>Image: A start of the start of</li></ul>	As Found	1199.68	1200.32	0.015 °C
	1500.0	1499.972	<ul> <li>Image: A start of the start of</li></ul>	As Found	1499.66	1500.32	0.019 °C
	1700.0	1699.918	<ul> <li>Image: A start of the start of</li></ul>	As Found	1699.63	1700.37	0.019 °C
Type B 50 to 1820°C	920.0	919.969	<ul> <li>Image: A start of the start of</li></ul>	As Found	919.61	920.39	0.017 °C
	1000.0	1000.011	<ul> <li>Image: A start of the start of</li></ul>	As Found	999.60	1000.40	0.017 °C
	1250.0	1249.947	<ul> <li>Image: A start of the start of</li></ul>	As Found	1249.57	1250.43	0.015 °C
	1500.0	1499.981	<ul> <li>Image: A start of the start of</li></ul>	As Found	1499.55	1500.45	0.016 °C
	1800.0	1799.904	<ul> <li>Image: A start of the start of</li></ul>	As Found	1799.52	1800.48	0.016 °C
Degrees F	1688.0	1687.944	<ul> <li>✓</li> </ul>	As Found	1687.29	1688.71	0.061 °F



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✓ In Tolerance	of Tolerance	(	Calib	ration Data			
Range	Nominal	As Foun	d	As Left	Min	Max	Uncertainty
·		Thermoo	oupl	e Output Accura	асу		
Type N -270 to 1300°C	-200.0	-200.074	<ul> <li>Image: A start of the start of</li></ul>	As Found	-200.12	-199.88	0.016 °C
	0.0	-0.021	<ul> <li>Image: A start of the start of</li></ul>	As Found	-0.10	0.10	0.0080 °C
	100.0	99.975	<ul> <li>Image: A start of the start of</li></ul>	As Found	99.89	100.11	0.0070 °C
	300.0	300.017	<ul> <li>Image: A start of the start of</li></ul>	As Found	299.87	300.13	0.0070 °C
	600.0	599.990	<ul> <li>Image: A start of the start of</li></ul>	As Found	599.84	600.16	0.0074 °C
	1000.0	999.996	<ul> <li>Image: A start of the start of</li></ul>	As Found	999.80	1000.20	0.0090 °C
	1300.0	1300.038	<ul> <li>Image: A start of the start of</li></ul>	As Found	1299.77	1300.23	0.011 °C
Degrees F	32.0	31.961	✓	As Found	31.82	32.18	0.058 °F
		Oh	ms In	put Accuracy			
0 to 500 Ohms	0.000	0.001	<ul> <li>✓</li> </ul>	As Found	-0.012	0.012	0.00058 Ohms
	100.000	99.991	<ul> <li>Image: A start of the start of</li></ul>	As Found	99.978	100.022	0.0013 Ohms
	200.000	199.990	<ul> <li>Image: A start of the start of</li></ul>	As Found	199.968	200.032	0.0027 Ohms
	300.000	299.991	<ul> <li>Image: A start of the start of</li></ul>	As Found	299.958	300.042	0.0037 Ohms
	400.000	399.977	<ul> <li>Image: A start of the start of</li></ul>	As Found	399.948	400.052	0.0047 Ohms
	500.000	499.976	<ul> <li>Image: A start of the start of</li></ul>	As Found	499.938	500.062	0.0057 Ohms
0 to 5.0 kOhms	0.00000	0.00000	<ul> <li>Image: A start of the start of</li></ul>	As Found	-0.00012	0.00012	).0000058 kOhm
	1.00000	0.99994	<ul> <li>✓</li> </ul>	As Found	0.99978	1.00022	0.000013 kOhm
	2.00000	1.99989	<ul> <li>Image: A start of the start of</li></ul>	As Found	1.99968	2.00032	0.000027 kOhm
	3.00000	2.99985	<ul> <li>Image: A start of the start of</li></ul>	As Found	2.99958	3.00042	0.000037 kOhm
	4.00000	3.99981	<ul> <li>Image: A start of the start of</li></ul>	As Found	3.99948	4.00052	0.000047 kOhm
	5.00000	4.99976	<ul> <li>✓</li> </ul>	As Found	4.99938	5.00062	0.000057 kOhm
		Ohm	s Ou	tput Accuracy			
0 to 500 Ohms	0.000	0.0019	<ul> <li>✓</li> </ul>	As Found	-0.020	0.020	0.00084 Ohms
	100.000	100.0043	<ul> <li>Image: A start of the start of</li></ul>	As Found	99.970	100.030	0.0017 Ohms
	200.000	200.0091	<ul> <li>Image: A start of the start of</li></ul>	As Found	199.960	200.040	0.0027 Ohms
	300.000	300.0119	<ul> <li>Image: A start of the start of</li></ul>	As Found	299.950	300.050	0.0037 Ohms
	400.000	400.0171	<ul> <li>Image: A start of the start of</li></ul>	As Found	399.940	400.060	0.0047 Ohms
	500.000	500.0202	<ul> <li>Image: A start of the start of</li></ul>	As Found	499.930	500.070	0.0057 Ohms
0 to 5.0 kOhms	0.00000	0.0000038	<ul> <li>Image: A start of the start of</li></ul>	As Found	-0.00020	0.00020	).0000058 kOhn
	0.50000	0.5000164	<ul> <li>Image: A start of the start of</li></ul>	As Found	0.49975	0.50025	).0000081 kOhn
	1.00000	1.0000256	<ul> <li>Image: A start of the start of</li></ul>	As Found	0.99970	1.00030	0.000013 kOhm
	2.00000	2.000039	<ul> <li>Image: A start of the start of</li></ul>	As Found	1.99960	2.00040	0.000027 kOhm
	3.00000	3.000036	<ul> <li>Image: A start of the start of</li></ul>	As Found	2.99950	3.00050	0.000037 kOhm



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Tolerance 🗶 Out	of Tolerance	(	Calib	ration Data				
Range	Nominal	As Found	1	As Left		Min	Max	Uncertainty
		Ohm	s Ou	tput Accuracy				
	4.00000	4.000027	<ul> <li>Image: A start of the start of</li></ul>	As Found		3.99940	4.00060	0.000047 kOhm
	5.00000	5.000034	$\checkmark$	As Found	4	4.99930	5.00070	0.000057 kOhm
·		Freque	ency A	Accuracy Outp	ut			
1 to 200 Hz	1.000	0.99997	<ul> <li>Image: A start of the start of</li></ul>	As Found	(	).99895	1.00105	0.00058 Hz
	25.000	25.000	<ul> <li>Image: A start of the start of</li></ul>	As Found		24.998	25.002	0.00058 Hz
	50.000	49.999	<ul> <li>Image: A start of the start of</li></ul>	As Found		49.996	50.004	0.00058 Hz
	100.000	99.9998	<ul> <li>Image: A start of the start of</li></ul>	As Found		99.994	100.006	0.00058 Hz
	150.000	149.998	<ul> <li>Image: A start of the start of</li></ul>	As Found		149.991	150.009	0.00058 Hz
	200.000	199.997	$\checkmark$	As Found		199.989	200.011	0.00058 Hz
1 to 2000 Hz	1.00	0.99997	<ul> <li>✓</li> </ul>	As Found	(	0.99895	1.00105	0.0058 Hz
	250.00	249.996	<ul> <li>Image: A start of the start of</li></ul>	As Found		249.986	250.014	0.0058 Hz
	500.00	499.992	<ul> <li>Image: A start of the start of</li></ul>	As Found		199.974	500.026	0.0058 Hz
	1000.00	999.983	<ul> <li>Image: A start of the start of</li></ul>	As Found		999.949	1000.051	0.0058 Hz
	1500.00	1499.975	$\checkmark$	As Found	1	499.924	1500.076	0.0058 Hz
	2000.00	1999.967	<ul> <li>Image: A start of the start of</li></ul>	As Found	1	999.899	2000.101	0.0058 Hz
1 to 20000 Hz	1.0	0.99997	<ul> <li>Image: A start of the start of</li></ul>	As Found	(	0.99895	1.00105	0.058 Hz
	2500.0	2499.959	✓	As Found	2	499.874	2500.126	0.058 Hz
	5000.0	4999.917	$\checkmark$	As Found	4	999.749	5000.251	0.058 Hz
	10000.0	9999.836	<ul> <li>Image: A start of the start of</li></ul>	As Found	9	999.499	10000.501	0.058 Hz
	15000.0	14999.749	✓	As Found	14	1999.249	15000.751	0.058 Hz
	20000.0	19999.673	<ul> <li>Image: A start of the start of</li></ul>	As Found	19	9998.999	20001.001	0.058 Hz

End of Datasheet

**Calibration Standards** 

<u>NIST Traceable #</u>	Instrument ID#	Description	<u>Model</u>	Calibration Date	Date Due
1000177504	01240	Time & Frequency Synchronization System	SecureSync®	22 APR 2015	00 0000
1000231831	01090	Universal Counter, 225 MHz	53131A	03 OCT 2022	31 OCT 2023
1000233873	00888	Calibrator	5720A	24 MAR 2023	31 MAR 2024
1000236428	00522	Resistance Standard	RS925A	18 APR 2023	30 APR 2024
1000236451	00266	High Impedance Voltmeter-Null Detector	845AR	20 APR 2023	30 APR 2024
1000236515	01196	RH/Temperature Data Logger	EL-USB-2-LCD	27 APR 2023	30 APR 2024
1000237036	00890	Multimeter, 8.5 Digit Reference	8508A-01	31 JUL 2023	31 JUL 2024