

1000240505

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Customer Information

Accurate Calibration & Repair 1924 Pinnacle Drive Aurora, IL 60504



PO #: 2305

Reference #: 2354706Rg17025

Account #: 00317 SO #: 54706

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 Information

Reason For Service: Calibration with Data

Technician: Appeaelle Bullock

Total Of Calibration: A condition of the Language Calibration of the

Type Of Calibration: Accredited 17025 Cal Date: 14 DEC 23
As Found Condition: In Tolerance Cal Due: 14 MAR 24

As Left Condition: Left As Found Temperature: 22.0 °C

Procedure: MFR Manual: Humidity: 33.0 %

Technician Remarks: Calibrated per AMS 2750 G at Customer 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: Dec 14, 2023



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| Tolerance 🗶 Out | of Tolerance | (| Calib | ration Data | | | |
|-----------------|--------------|-------------|----------|----------------|----------|----------|-------------|
| Range | Nominal | As Found | 1 | As Left | Min | Max | Uncertainty |
| | | Volta | ge O | utput Accuracy | | | |
| -20 to 200 mV | -20.000 | -20.00077 | ✓ | As Found | -20.004 | -19.996 | 0.00063 mV |
| | 0.000 | 0.00016 | ✓ | As Found | -0.002 | 0.002 | 0.00059 mV |
| | 10.000 | 10.00038 | ✓ | As Found | 9.997 | 10.003 | 0.00061 mV |
| | 50.000 | 50.00036 | ✓ | As Found | 49.993 | 50.007 | 0.00073 mV |
| | 100.000 | 100.00092 | ✓ | As Found | 99.988 | 100.012 | 0.00097 mV |
| | 200.000 | 200.0042 | ✓ | As Found | 199.978 | 200.022 | 0.0016 mV |
| -0.2 to 2 V | -0.20000 | -0.2000069 | ✓ | As Found | -0.20003 | -0.19997 | 0.0000060 V |
| | -0.10000 | -0.10000343 | ✓ | As Found | -0.10002 | -0.09998 | 0.0000059 V |
| | 0.00000 | -0.0000018 | ✓ | As Found | -0.00001 | 0.00001 | 0.0000058 V |
| | 0.50000 | 0.5000054 | ✓ | As Found | 0.49994 | 0.50006 | 0.0000064 V |
| | 1.00000 | 1.0000107 | ✓ | As Found | 0.99989 | 1.00011 | 0.0000077 V |
| | 2.00000 | 2.000039 | ✓ | As Found | 1.99979 | 2.00021 | 0.000016 V |
| -2 to 20 V | -2.00000 | -2.000059 | ✓ | As Found | -2.00028 | -1.99972 | 0.000060 V |
| | -1.00000 | -1.0000283 | ✓ | As Found | -1.00018 | -0.99982 | 0.000058 V |
| | 0.00000 | 0.00000135 | ✓ | As Found | -0.00008 | 0.00008 | 0.000058 V |
| | 5.00000 | 5.000061 | ✓ | As Found | 4.99942 | 5.00058 | 0.000064 V |
| | 10.00000 | 10.000117 | ✓ | As Found | 9.99892 | 10.00108 | 0.000077 V |
| | 20.00000 | 20.00041 | ✓ | As Found | 19.99792 | 20.00208 | 0.00020 V |
| ' | | Volta | age li | nput Accuracy | | | |
| -20 to 200 mV | -20.000 | -20.000 | ✓ | As Found | -20.005 | -19.995 | 0.00090 mV |
| | -10.000 | -10.000 | ✓ | As Found | -10.004 | -9.996 | 0.00083 mV |
| | 0.000 | 0.000 | ✓ | As Found | -0.003 | 0.003 | 0.00077 mV |
| | 50.000 | 49.999 | ✓ | As Found | 49.993 | 50.007 | 0.0012 mV |
| | 100.000 | 99.998 | ✓ | As Found | 99.987 | 100.013 | 0.0016 mV |
| | 200.000 | 199.999 | ✓ | As Found | 199.977 | 200.023 | 0.0024 mV |
| -200 to 2000 mV | -200.00 | -199.99 | ✓ | As Found | -200.04 | -199.96 | 0.0063 mV |
| | -100.00 | -99.99 | ✓ | As Found | -100.03 | -99.97 | 0.0060 mV |
| | 0.00 | 0.00 | ✓ | As Found | -0.02 | 0.02 | 0.0058 mV |
| | 100.00 | 99.99 | ✓ | As Found | 99.97 | 100.03 | 0.0060 mV |
| | 500.00 | 499.99 | ✓ | As Found | 499.93 | 500.07 | 0.0070 mV |
| | 1000.00 | 999.99 | ✓ | As Found | 999.88 | 1000.12 | 0.0090 mV |
| | 2000.00 | 1999.99 | ✓ | As Found | 1999.78 | 2000.22 | 0.014 mV |
| -2 to 20 V | -2.0000 | -1.9999 | √ | As Found | -2.0004 | -1.9996 | 0.000060 V |
| | -1.0000 | -0.9999 | ✓ | 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 | | As Left | Min | Max | Uncertainty |
| | | Volta | age Ir | nput Accuracy | | | |
| | 0.0000 | 0.0000 | ✓ | As Found | -0.0002 | 0.0002 | 0.000058 V |
| | 2.0000 | 1.9999 | ✓ | As Found | 1.9996 | 2.0004 | 0.000060 V |
| | 5.0000 | 4.9999 | ✓ | As Found | 4.9993 | 5.0007 | 0.000063 V |
| | 10.0000 | 9.9999 | ✓ | As Found | 9.9988 | 10.0012 | 0.000072 V |
| | 20.0000 | 19.9999 | ✓ | As Found | 19.9978 | 20.0022 | 0.00011 V |
| | | mAn | np Ou | itput Accuracy | | | , |
| 0 to 50 mA | 0.0000 | 0.00000023 | | As Found | -0.0004 | 0.0004 | 0.000058 mA |
| | 1.0000 | 1.0000856 | ✓ | As Found | 0.9995 | 1.0005 | 0.000062 mA |
| | 5.0000 | 5.000171 | ✓ | As Found | 4.9991 | 5.0009 | 0.00015 mA |
| | 10.0000 | 10.000416 | ✓ | As Found | 9.9986 | 10.0014 | 0.00023 mA |
| | 30.0000 | 30.00078 | ✓ | As Found | 29.9966 | 30.0034 | 0.0026 mA |
| | 50.0000 | 50.00149 | ✓ | As Found | 49.9946 | 50.0054 | 0.0038 mA |
| | | mA | mp In | put Accuracy | | | |
| -5 to 50 mA | -5.0000 | -4.9997 | ✓ | As Found | -5.0013 | -4.9987 | 0.00026 mA |
| | 1.0000 | 1.0000 | ✓ | As Found | 0.9994 | 1.0006 | 0.000076 mA |
| | 5.0000 | 4.9998 | ✓ | As Found | 4.9990 | 5.0010 | 0.00026 mA |
| | 10.0000 | 9.9996 | ✓ | As Found | 9.9985 | 10.0015 | 0.00046 mA |
| | 30.0000 | 29.9994 | ✓ | As Found | 29.9966 | 30.0034 | 0.0023 mA |
| | 50.0000 | 49.9988 | ✓ | As Found | 49.9945 | 50.0055 | 0.0033 mA |
| ' | | Thermo | coup | le Input Accurac | су | | |
| Type J -210 to 1200°C | -190.0 | -189.97 | ✓ | As Found | -190.2 | -189.8 | 0.0072 °C |
| RJ ext. @ 0.0°C | -50.0 | -50.00 | ✓ | As Found | -50.2 | -49.8 | 0.0064 °C |
| | 0.0 | 0.00 | ✓ | As Found | -0.2 | 0.2 | 0.0063 °C |
| | 100.0 | 99.99 | ✓ | As Found | 99.8 | 100.2 | 0.0063 °C |
| | 300.0 | 300.00 | ✓ | As Found | 299.8 | 300.2 | 0.0063 °C |
| | 600.0 | 599.97 | ✓ | As Found | 599.7 | 600.3 | 0.0070 °C |
| | 750.0 | 750.00 | ✓ | As Found | 749.7 | 750.3 | 0.0082 °C |
| | 1000.0 | 999.98 | ✓ | As Found | 999.7 | 1000.3 | 0.0082 °C |
| | 1200.0 | 1200.02 | ✓ | As Found | 1199.7 | 1200.3 | 0.011 °C |
| Degrees F | 32.0 | 32.0 | ✓ | As Found | 31.7 | 32.3 | 0.058 °F |
| Type K -270 to 1370°C | -160.0 | -160.02 | ✓ | As Found | -160.2 | -159.8 | 0.049 °C |
| | -50.0 | -50.04 | ✓ | As Found | -50.2 | -49.8 | 0.0070 °C |
| | 0.0 | -0.01 | ✓ | As Found | -0.2 | 0.2 | 0.0070 °C |



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| ✓ In Tolerance 🗶 Out | of Tolerance | (| Calib | ration Data | | | |
|-----------------------|--------------|----------|----------|-----------------|---------|---------|-------------|
| Range | Nominal | As Found | | As Left | Min | Max | Uncertainty |
| | | Thermo | coup | le Input Accura | су | | |
| | 100.0 | 100.00 | ✓ | As Found | 99.8 | 100.2 | 0.0070 °C |
| | 300.0 | 299.94 | ✓ | As Found | 299.8 | 300.2 | 0.0070 °C |
| | 500.0 | 499.98 | ✓ | As Found | 499.7 | 500.3 | 0.0070 °C |
| | 700.0 | 699.98 | ✓ | As Found | 699.7 | 700.3 | 0.0080 °C |
| | 900.0 | 899.95 | ✓ | As Found | 899.7 | 900.3 | 0.0080 °C |
| | 1100.0 | 1099.98 | ✓ | As Found | 1099.7 | 1100.3 | 0.011 °C |
| | 1260.0 | 1259.92 | ✓ | As Found | 1259.7 | 1260.3 | 0.013 °C |
| Degrees F | 32.0 | 31.9 | ✓ | As Found | 31.7 | 32.3 | 0.059 °F |
| Type T -270 to 400°C | -260.0 | -260.0 | ✓ | As Found | -260.2 | -259.8 | 0.091 °C |
| | -130.0 | -130.01 | ✓ | As Found | -130.11 | -129.89 | 0.0080 °C |
| | -50.0 | -50.02 | ✓ | As Found | -50.12 | -49.88 | 0.0071 °C |
| | 0.00 | -0.01 | ✓ | As Found | -0.11 | 0.11 | 0.0070 °C |
| | 100.00 | 100.02 | ✓ | As Found | 99.89 | 100.11 | 0.0070 °C |
| | 200.00 | 199.98 | ✓ | As Found | 199.87 | 200.13 | 0.0064 °C |
| | 300.00 | 300.00 | ✓ | As Found | 299.86 | 300.14 | 0.0070 °C |
| | 400.00 | 399.98 | ✓ | As Found | 399.85 | 400.15 | 0.0070 °C |
| Degrees F | 32.0 | 31.9 | ✓ | As Found | 31.8 | 32.2 | 0.058 °F |
| Type E -270 to 1000°C | -200.0 | -199.98 | ✓ | As Found | -200.2 | -199.8 | 0.013 °C |
| | -100.0 | -100.02 | ✓ | As Found | -100.2 | -99.8 | 0.0070 °C |
| | 0.0 | 0.00 | ✓ | As Found | -0.2 | 0.2 | 0.0062 °C |
| | 50.0 | 49.99 | ✓ | As Found | 49.8 | 50.2 | 0.0062 °C |
| | 100.0 | 100.01 | ✓ | As Found | 99.8 | 100.2 | 0.0070 °C |
| | 200.0 | 199.97 | ✓ | As Found | 199.8 | 200.2 | 0.0070 °C |
| | 400.0 | 399.96 | ✓ | As Found | 399.8 | 400.2 | 0.0070 °C |
| | 500.0 | 499.96 | ✓ | As Found | 499.7 | 500.3 | 0.0070 °C |
| | 750.0 | 749.99 | ✓ | As Found | 749.7 | 750.3 | 0.0090 °C |
| | 1000.0 | 999.99 | ✓ | As Found | 999.7 | 1000.3 | 0.0090 °C |
| Degrees F | 32.0 | 31.9 | ✓ | As Found | 31.7 | 32.3 | 0.058 °F |
| Type R -50 to 1760°C | 150.0 | 149.99 | ✓ | As Found | 149.7 | 150.3 | 0.016 °C |
| | 300.0 | 299.99 | ✓ | As Found | 299.7 | 300.3 | 0.016 °C |
| | 500.0 | 500.04 | ✓ | As Found | 499.6 | 500.4 | 0.015 °C |
| | 1000.0 | 999.96 | ✓ | As Found | 999.6 | 1000.4 | 0.014 °C |
| | 1200.0 | 1199.95 | ✓ | As Found | 1199.68 | 1200.32 | 0.014 °C |
| | 1760.0 | 1759.99 | ✓ | As Found | 1759.5 | 1760.5 | 0.017 °C |
| | | - | + | | + | | + |



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| ✓ In Tolerance 🗴 Out | of Tolerance | (| Calib | ration Data | | | |
|-----------------------|--------------|----------|----------|-----------------|---------|---------|-------------|
| Range | Nominal | As Found | | As Left | Min | Max | Uncertainty |
| | | Thermo | coup | le Input Accura | асу | | |
| Type S -50 to 1760°C | 170.0 | 170.06 | ✓ | As Found | 169.7 | 170.3 | 0.016 °C |
| | 300.0 | 299.98 | ✓ | As Found | 299.7 | 300.3 | 0.016 °C |
| | 500.0 | 499.94 | ✓ | As Found | 499.6 | 500.4 | 0.016 °C |
| | 750.0 | 749.96 | ✓ | As Found | 749.6 | 750.4 | 0.015 °C |
| | 1000.0 | 999.98 | ✓ | As Found | 999.6 | 1000.4 | 0.015 °C |
| | 1760.0 | 1760.00 | ✓ | As Found | 1759.5 | 1760.5 | 0.019 °C |
| Type B 50 to 1820°C | 920.0 | 919.99 | ✓ | As Found | 919.5 | 920.5 | 0.017 °C |
| | 1200.0 | 1200.03 | ✓ | As Found | 1199.5 | 1200.5 | 0.015 °C |
| | 1400.0 | 1399.96 | ✓ | As Found | 1399.4 | 1400.6 | 0.015 °C |
| | 1600.0 | 1599.94 | ✓ | As Found | 1599.4 | 1600.6 | 0.016 °C |
| | 1820.0 | 1819.99 | ✓ | As Found | 1819.4 | 1820.6 | 0.016 °C |
| Degrees F | 2000.0 | 1999.9 | ✓ | As Found | 1999.2 | 2000.8 | 0.061 °F |
| Type N -270 to 1300°C | 0.0 | -0.02 | ✓ | As Found | -0.2 | 0.2 | 0.0080 °C |
| | 50.0 | 50.01 | ✓ | As Found | 49.8 | 50.2 | 0.0074 °C |
| | 100.0 | 100.00 | √ | As Found | 99.8 | 100.2 | 0.0070 °C |
| | 250.0 | 249.98 | ✓ | As Found | 249.8 | 250.2 | 0.0070 °C |
| | 300.0 | 299.95 | ✓ | As Found | 299.8 | 300.2 | 0.0070 °C |
| | 500.0 | 499.98 | ✓ | As Found | 499.7 | 500.3 | 0.0074 °C |
| | 700.0 | 699.97 | ✓ | As Found | 699.7 | 700.3 | 0.0074 °C |
| | 1000.0 | 999.98 | ✓ | As Found | 999.7 | 1000.3 | 0.0090 °C |
| | 1300.0 | 1299.96 | ✓ | As Found | 1299.7 | 1300.3 | 0.011 °C |
| ' | | Thermoc | oupl | e Output Accur | acy | | + |
| Type J -210 to 1200°C | -190.0 | -190.030 | ✓ | As Found | -190.12 | -189.88 | 0.0072 °C |
| | 0.00 | -0.007 | √ | As Found | -0.10 | 0.10 | 0.0063 °C |
| | 100.0 | 100.003 | √ | As Found | 99.89 | 100.11 | 0.0063 °C |
| | 300.0 | 300.016 | ✓ | As Found | 299.87 | 300.13 | 0.0063 °C |
| | 500.0 | 499.950 | ✓ | As Found | 499.85 | 500.15 | 0.0070 °C |
| | 1200.0 | 1200.009 | ✓ | As Found | 1199.78 | 1200.22 | 0.011 °C |
| Degrees F | 32.0 | 31.987 | ✓ | As Found | 31.82 | 32.18 | 0.058 °F |
| Type K -270 to 1370°C | -160.0 | -160.024 | ✓ | As Found | -160.12 | -159.88 | 0.049 °C |
| | 0.0 | -0.005 | ✓ | As Found | -0.10 | 0.10 | 0.0070 °C |
| | 100.0 | 99.991 | √ | As Found | 99.89 | 100.11 | 0.0070 °C |
| | 300.0 | 300.031 | · ✓ | As Found | 299.87 | 300.13 | 0.0070 °C |
| | 500.0 | 499.995 | · ✓ | As Found | 499.85 | 500.15 | 0.0070 °C |



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| ✓ In Tolerance 🗶 Out | t of Tolerance | (| Calib | ration Data | | | |
|------------------------|----------------|----------|----------|----------------|---------|---------|-------------|
| Range | Nominal | As Found | 1 | As Left | Min | Max | Uncertainty |
| | | Thermod | oupl | e Output Accur | асу | | |
| | 1260.0 | 1260.022 | ✓ | As Found | 1259.77 | 1260.23 | 0.013 °C |
| Degrees F | 32.0 | 31.992 | ✓ | As Found | 31.82 | 32.18 | 0.059 °F |
| Type T -270 to 400°C | -260.0 | -260.098 | ✓ | As Found | -260.2 | -259.8 | 0.091 °C |
| | -130.0 | -130.041 | ✓ | As Found | -130.12 | -129.88 | 0.0080 °C |
| | 0.0 | -0.014 | ✓ | As Found | -0.10 | 0.10 | 0.0070 °C |
| | 100.0 | 99.958 | ✓ | As Found | 99.89 | 100.11 | 0.0070 °C |
| | 250.0 | 249.975 | ✓ | As Found | 249.87 | 250.13 | 0.0070 °C |
| | 400.0 | 400.026 | ✓ | As Found | 399.86 | 400.14 | 0.0070 °C |
| Degrees F | 32.0 | 31.975 | ✓ | As Found | 31.82 | 32.18 | 0.058 °F |
| Type E -270 to 1000°C | -200.0 | -200.060 | ✓ | As Found | -200.12 | -199.88 | 0.013 °C |
| | 0.0 | -0.007 | ✓ | As Found | -0.10 | 0.10 | 0.0062 °C |
| | 100.0 | 99.970 | ✓ | As Found | 99.89 | 100.11 | 0.0070 °C |
| | 250.0 | 250.006 | ✓ | As Found | 249.87 | 250.13 | 0.0070 °C |
| | 500.0 | 500.029 | ✓ | As Found | 499.85 | 500.15 | 0.0070 °C |
| | 1000.0 | 1000.008 | ✓ | As Found | 999.80 | 1000.20 | 0.0090 °C |
| Degrees F | 32.0 | 31.987 | ✓ | As Found | 31.82 | 32.18 | 0.058 °F |
| Type R -50.0 to 1760°C | 150.0 | 149.994 | ✓ | As Found | 149.78 | 150.22 | 0.016 °C |
| | 500.0 | 499.879 | ✓ | As Found | 499.75 | 500.25 | 0.015 °C |
| | 800.0 | 799.973 | ✓ | As Found | 799.72 | 800.28 | 0.015 °C |
| | 1200.0 | 1199.988 | ✓ | As Found | 1199.68 | 1200.32 | 0.014 °C |
| | 1500.0 | 1499.918 | ✓ | As Found | 1499.66 | 1500.34 | 0.017 °C |
| | 1700.0 | 1699.978 | ✓ | As Found | 1699.63 | 1700.37 | 0.017 °C |
| Type S -50 to 1760°C | 170.0 | 169.874 | ✓ | As Found | 169.78 | 170.22 | 0.016 °C |
| | 500.0 | 500.003 | ✓ | As Found | 499.75 | 500.25 | 0.016 °C |
| | 800.0 | 799.991 | ✓ | As Found | 799.72 | 800.28 | 0.015 °C |
| | 1200.0 | 1199.945 | ✓ | As Found | 1199.68 | 1200.32 | 0.015 °C |
| | 1500.0 | 1499.964 | ✓ | As Found | 1499.66 | 1500.32 | 0.019 °C |
| | 1700.0 | 1699.906 | ✓ | As Found | 1699.63 | 1700.37 | 0.019 °C |
| Type B 50 to 1820°C | 920.0 | 919.980 | ✓ | As Found | 919.61 | 920.39 | 0.017 °C |
| | 1000.0 | 1000.007 | ✓ | As Found | 999.60 | 1000.40 | 0.017 °C |
| | 1250.0 | 1249.924 | ✓ | As Found | 1249.57 | 1250.43 | 0.015 °C |
| | 1500.0 | 1499.958 | ✓ | As Found | 1499.55 | 1500.45 | 0.016 °C |
| | 1800.0 | 1799.883 | ✓ | As Found | 1799.52 | 1800.48 | 0.016 °C |
| Degrees F | 1688.0 | 1687.964 | ✓ | As Found | 1687.29 | 1688.71 | 0.061 °F |



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| ✓ In Tolerance Calibration Data | | | | | | | | | | | |
|---------------------------------|---------|-----------|----------|---------------|----------|---------|-----------------|--|--|--|--|
| Range | Nominal | As Found | | As Left | Min | Max | Uncertainty | | | | |
| Thermocouple Output Accuracy | | | | | | | | | | | |
| Type N -270 to 1300°C | -200.0 | -200.117 | ✓ | As Found | -200.12 | -199.88 | 0.016 °C | | | | |
| | 0.0 | -0.004 | ✓ | As Found | -0.10 | 0.10 | 0.0080 °C | | | | |
| | 100.0 | 99.982 | ✓ | As Found | 99.89 | 100.11 | 0.0070 °C | | | | |
| | 300.0 | 300.020 | ✓ | As Found | 299.87 | 300.13 | 0.0070 °C | | | | |
| | 600.0 | 599.994 | ✓ | As Found | 599.84 | 600.16 | 0.0074 °C | | | | |
| | 1000.0 | 999.993 | ✓ | As Found | 999.80 | 1000.20 | 0.0090 °C | | | | |
| | 1300.0 | 1300.035 | ✓ | As Found | 1299.77 | 1300.23 | 0.011 °C | | | | |
| Degrees F | 32.0 | 31.992 | ✓ | As Found | 31.82 | 32.18 | 0.058 °F | | | | |
| | | Ohr | ns In | put Accuracy | | | | | | | |
| 0 to 500 Ohms | 0.000 | 0.001 | ✓ | As Found | -0.012 | 0.012 | 0.00058 Ohms | | | | |
| | 100.000 | 99.999 | ✓ | As Found | 99.978 | 100.022 | 0.0013 Ohms | | | | |
| | 200.000 | 199.989 | ✓ | As Found | 199.968 | 200.032 | 0.0027 Ohms | | | | |
| | 300.000 | 299.985 | ✓ | As Found | 299.958 | 300.042 | 0.0037 Ohms | | | | |
| | 400.000 | 399.983 | ✓ | As Found | 399.948 | 400.052 | 0.0047 Ohms | | | | |
| | 500.000 | 499.981 | ✓ | As Found | 499.938 | 500.062 | 0.0057 Ohms | | | | |
| 0 to 5.0 kOhms | 0.00000 | 0.00000 | ✓ | As Found | -0.00012 | 0.00012 |).0000058 kOhms | | | | |
| | 1.00000 | 0.99995 | ✓ | As Found | 0.99978 | 1.00022 | 0.000013 kOhms | | | | |
| | 2.00000 | 1.99992 | ✓ | As Found | 1.99968 | 2.00032 | 0.000027 kOhms | | | | |
| | 3.00000 | 2.99987 | ✓ | As Found | 2.99958 | 3.00042 | 0.000037 kOhms | | | | |
| | 4.00000 | 3.99983 | ✓ | As Found | 3.99948 | 4.00052 | 0.000047 kOhms | | | | |
| | 5.00000 | 4.99979 | ✓ | As Found | 4.99938 | 5.00062 | 0.000057 kOhms | | | | |
| | | Ohm | s Ou | tput Accuracy | | | | | | | |
| 0 to 500 Ohms | 0.000 | 0.0022 | ✓ | As Found | -0.020 | 0.020 | 0.00084 Ohms | | | | |
| | 100.000 | 100.0056 | ✓ | As Found | 99.970 | 100.030 | 0.0017 Ohms | | | | |
| | 200.000 | 200.0109 | ✓ | As Found | 199.960 | 200.040 | 0.0027 Ohms | | | | |
| | 300.000 | 300.0142 | ✓ | As Found | 299.950 | 300.050 | 0.0037 Ohms | | | | |
| | 400.000 | 400.0203 | ✓ | As Found | 399.940 | 400.060 | 0.0047 Ohms | | | | |
| | 500.000 | 500.0239 | ✓ | As Found | 499.930 | 500.070 | 0.0057 Ohms | | | | |
| 0 to 5.0 kOhms | 0.00000 | 0.0000057 | ✓ | As Found | -0.00020 | 0.00020 |).0000058 kOhms | | | | |
| | 0.50000 | 0.5000198 | ✓ | As Found | 0.49975 | 0.50025 |).0000081 kOhms | | | | |
| | 1.00000 | 1.0000279 | ✓ | As Found | 0.99970 | 1.00030 | 0.000013 kOhms | | | | |
| | 2.00000 | 2.000042 | ✓ | As Found | 1.99960 | 2.00040 | 0.000027 kOhms | | | | |
| | 3.00000 | 3.000037 | ✓ | As Found | 2.99950 | 3.00050 | 0.000037 kOhms | | | | |



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| ✓ In Tolerance Calibration Data | | | | | | | | | | | |
|---------------------------------|---------|-----------|----------|---------------|-----|-----------|-----------|----------------|--|--|--|
| Range | Nominal | As Found | | As Left | | Min | Max | Uncertainty | | | |
| Ohms Output Accuracy | | | | | | | | | | | |
| | 4.00000 | 4.000039 | ✓ | As Found | | 3.99940 | 4.00060 | 0.000047 kOhms | | | |
| | 5.00000 | 5.000041 | ✓ | As Found | | 4.99930 | 5.00070 | 0.000057 kOhms | | | |
| | | Freque | ncy | Accuracy Outp | out | • | | • | | | |
| 1 to 200 Hz | 1.000 | 0.99997 | ✓ | As Found | | 0.99895 | 1.00105 | 0.00058 Hz | | | |
| | 25.000 | 25.000 | ✓ | As Found | | 24.998 | 25.002 | 0.00058 Hz | | | |
| | 50.000 | 49.999 | ✓ | As Found | | 49.996 | 50.004 | 0.00058 Hz | | | |
| | 100.000 | 99.998 | ✓ | As Found | | 99.994 | 100.006 | 0.00058 Hz | | | |
| | 150.000 | 149.997 | ✓ | As Found | | 149.991 | 150.009 | 0.00058 Hz | | | |
| | 200.000 | 199.997 | ✓ | As Found | | 199.989 | 200.011 | 0.00058 Hz | | | |
| 1 to 2000 Hz | 1.00 | 0.99997 | ✓ | As Found | | 0.99895 | 1.00105 | 0.0058 Hz | | | |
| | 250.00 | 249.996 | ✓ | As Found | | 249.986 | 250.014 | 0.0058 Hz | | | |
| | 500.00 | 499.992 | ✓ | As Found | | 499.974 | 500.026 | 0.0058 Hz | | | |
| | 1000.00 | 999.983 | ✓ | As Found | | 999.949 | 1000.051 | 0.0058 Hz | | | |
| | 1500.00 | 1499.974 | ✓ | As Found | | 1499.924 | 1500.076 | 0.0058 Hz | | | |
| | 2000.00 | 1999.966 | ✓ | As Found | | 1999.899 | 2000.101 | 0.0058 Hz | | | |
| 1 to 20000 Hz | 1.0 | 0.99997 | ✓ | As Found | | 0.99895 | 1.00105 | 0.058 Hz | | | |
| | 2500.0 | 2499.958 | ✓ | As Found | | 2499.874 | 2500.126 | 0.058 Hz | | | |
| | 5000.0 | 4999.916 | ✓ | As Found | | 4999.749 | 5000.251 | 0.058 Hz | | | |
| | 10000.0 | 9999.837 | ✓ | As Found | | 9999.499 | 10000.501 | 0.058 Hz | | | |
| | 15000.0 | 14999.751 | ✓ | As Found | | 14999.249 | 15000.751 | 0.058 Hz | | | |
| | 20000.0 | 19999.669 | ✓ | As Found | | 19998.999 | 20001.001 | 0.058 Hz | | | |

End of Datasheet

Calibration Standards

| NIST Traceable # | Instrument ID# | <u>Description</u> | Model | Calibration Date | Date Due |
|------------------|----------------|---|--------------|------------------|-------------|
| 1000177504 | 01240 | Time & Frequency Synchronization System | SecureSync® | 22 APR 2015 | 00 0000 |
| 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 |
| 1000239968 | 01090 | Universal Counter, 225 MHz | 53131A | 21 NOV 2023 | 30 NOV 2024 |