



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Organization of:

Electrical Test Instruments, LLC
16415 Northcross Drive, Suite A, Huntersville, NC 28078

*and hereby declares that the Organization is accredited in accordance with
the recognized International Standard:*

ISO/IEC 17025:2017

Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

***Acoustic, Dimensional, Electrical, Mass, Force, and Weighing Devices,
Mechanical, Thermodynamic, and Time and Frequency Calibration
(As detailed in the supplement)***

Accreditation claims for conformity assessment activities shall only be made from the addresses referenced within this certificate and shall apply solely to those activities identified in the related scope. This Accreditation is granted subject to the Accreditation Body rules governing the Accreditation referred to above, and the Organization hereby commits to observing and complying with those rules in their entirety.

For PJLA:

Initial Accreditation Date:

Issue Date:

Expiration Date:

April 03, 2001

December 02, 2025

January 31, 2028

Tracy Szerszen
President

Accreditation No.:

Certificate No.:

59060

L25-896

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

*The validity of this certificate is maintained through ongoing assessments based
on a continuous accreditation cycle. The validity of this certificate should be
confirmed through the PJLA website: www.pjilabs.com*



Certificate of Accreditation: Supplement

Electrical Test Instruments, LLC

16415 Northcross Drive, Suite A, Huntersville, NC 28078

Contact Name: Michael Griffith Phone: 704-535-0100

Accreditation is granted to the facility to perform the following conformity assessment activities:

| FIELD OF CALIBRATION | MEASURED INSTRUMENT, QUANTITY OR GAUGE | RANGE (AND SPECIFICATION WHERE APPROPRIATE) | EXPANDED MEASUREMENT UNCERTAINTY (\pm) ¹ | CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED | CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED | FLEX CODE | LOCATION OF ACTIVITY |
|----------------------|--|---|---|--|---|-----------|----------------------|
| Acoustic | Sound Level Meter | 94 dB | 0.38 dB | Bruel & Kjaer 4231 | NAVAIR 17-20SA-21 | F1, F2 | F, O |
| Acoustic | Sound Level Meter | 114 dB | 0.38 dB | Bruel & Kjaer 4231 | NAVAIR 17-20SA-21 | F1, F2 | F, O |
| Dimensional | Micrometers | 1.27 mm to 101.6 mm | (1.47 + 0.001L) μ m | Gage Blocks | T.O. 33K6-4-15-1 | F1, F2 | F, O |
| Dimensional | Micrometers | 0.05 in to 4 in | (58 + 1L) μ in | Gage Blocks | T.O. 33K6-4-15-1 | F1, F2 | F, O |
| Dimensional | Micrometers | 101.6 mm to 254 mm | (2.85 + 0.001L) μ m | Gage Blocks | T.O. 33K6-4-15-1 | F1, F2 | F, O |
| Dimensional | Micrometers | 4 in to 10 in | (112 + 1L) μ in | Gage Blocks | T.O. 33K6-4-15-1 | F1, F2 | F, O |
| Dimensional | Micrometers | 254 mm to 304.8 mm | (5.87 + 0L) μ m | Mitutoyo 515-565 | T.O. 33K6-4-15-1 | F1, F2 | F, O |
| Dimensional | Micrometers | 10 in to 12 in | (231 + 0L) μ in | Mitutoyo 515-565 | T.O. 33K6-4-15-1 | F1, F2 | F, O |
| Dimensional | Calipers | 1.27 mm to 254 mm | (14.66 + 0.001L) μ m | Gage Blocks | T.O. 33K6-4-552-1 | F1, F2 | F, O |
| Dimensional | Calipers | 0.05 in to 10 in | (577 + 1L) μ in | Gage Blocks | T.O. 33K6-4-552-1 | F1, F2 | F, O |
| Dimensional | Calipers | 1.27 mm to 609.6 mm | (29.31 + 0.002L) μ m | Mitutoyo 515-565, Starrett 234A | T.O. 33K6-4-552-1 | F1, F2 | F, O |
| Dimensional | Calipers | 1 in to 24 in | (220 + 14L) μ in | Mitutoyo 515-565, Starrett 234A | T.O. 33K6-4-552-1 | F1, F2 | F, O |
| Dimensional | Indicators | 2.5 μ m to 38.1 mm | (1.47 + 0.001L) μ m | Gage Blocks | T.O. 33K6-4-889-1 | F1, F2 | F, O |
| Dimensional | Indicators | 0.000 1 in to 1.5 in | (58 + 1L) μ in | Gage Blocks | T.O. 33K6-4-889-1 | F1, F2 | F, O |
| Dimensional | Height Gages | 1.27 mm to 609.6 mm | (2.9 + 0.009L) μ m | Mitutoyo 515-565, Starrett 234A | T.O. 33K6-4-1626-1 | F1, F2 | F, O |
| Dimensional | Height Gages | 0.05 in to 24 in | (115 + 9L) μ in | Mitutoyo 515-565, Starrett 234A | T.O. 33K6-4-1626-1 | F1, F2 | F, O |
| Electrical | Equipment to Output DC Voltage | 2.4 mV to 100 mV | 1 μ V + 0.000 7 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output DC Voltage | 100 mV to 1 V | 1 μ V + 0.000 6 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output DC Voltage | 1 V to 10 V | 2 μ V + 0.000 6 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |



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| Electrical | Equipment to Output DC Voltage | 10 V to 100 V | 32 μ V + 0.000 8 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output DC Voltage | 100 V to 1 000 V | 10.1 mV + 0.000 8 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Measure DC Voltage | 72 μ V to 330 mV | 4.3 μ V + 0.006 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure DC Voltage | 330 mV to 3.3 V | 18 μ V + 0.005 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure DC Voltage | 3.3 V to 33 V | 200 μ V + 0.005 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure DC Voltage | 30 V to 330 V | 2 mV + 0.005 5 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure DC Voltage | 100 V to 1 020 V | 1.5 mV + 0.005 5 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 1 Hz to 40 Hz) | 18 μ V to 10 mV | 3 μ V + 0.03 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 40 Hz to 1 kHz) | 9.3 μ V to 10 mV | 1.1 μ V + 0.02 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 1 kHz to 20 kHz) | 12.3 μ V to 10 mV | 1.1 μ V + 0.03 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 20 kHz to 50 kHz) | μ V to 10 mV | 1.1 μ V + 0.1 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 50 kHz to 100 kHz) | 153.3 μ V to 10 mV | 1.1 μ V + 0.5 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |



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| Electrical | Equipment to Output AC Voltage (@ 100 kHz to 300 kHz) | 1.2 mV to 10 mV | 2 μ V + 4 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 1 Hz to 40 Hz) | 10 mV to 100 mV | 4 μ V + 0.007 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 40 Hz to 1 kHz) | 10 mV to 100 mV | 2 μ V + 0.007 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 1 kHz to 20 kHz) | 10 mV to 100 mV | 2 μ V + 0.014 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 20 kHz to 50 kHz) | 10 mV to 100 mV | 2 μ V + 0.03 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 50 kHz to 100 kHz) | 10 mV to 100 mV | 2 μ V + 0.08 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 100 kHz to 300 kHz) | 10 mV to 100 mV | 10 μ V + 0.3 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 300 kHz to 1 MHz) | 10 mV to 100 mV | 10 μ V + 1 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 1 MHz to 2 MHz) | 10 mV to 100 mV | 10 μ V + 1.5 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 1 Hz to 40 Hz) | 100 mV to 1 V | 40 μ V + 0.007 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |



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| Electrical | Equipment to Output AC Voltage (@ 40 Hz to 1 kHz) | 100 mV to 1 V | 20 μ V + 0.007 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 1 kHz to 20 kHz) | 100 mV to 1 V | 20 μ V + 0.014 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 20 kHz to 50 kHz) | 100 mV to 1 V | 20 μ V + 0.03 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 50 kHz to 100 kHz) | 100 mV to 1 V | 20 μ V + 0.08 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 100 kHz to 300 kHz) | 100 mV to 1 V | 100 μ V + 0.3 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 300 kHz to 1 MHz) | 100 mV to 1 V | 100 μ V + 1 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 1 MHz to 2 MHz) | 100 mV to 1 V | 100 μ V + 1.5 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 1 Hz to 40 Hz) | 1 V to 10 V | 400 μ V + 0.007 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 40 Hz to 1 kHz) | 1 V to 10 V | 200 μ V + 0.007 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 1 kHz to 20 kHz) | 1 V to 10 V | 200 μ V + 0.014 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |



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| Electrical | Equipment to Output AC Voltage (@ 20 kHz to 50 kHz) | 1 V to 10 V | 200 μ V + 0.03 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 50 kHz to 100 kHz) | 1 V to 10 V | 200 μ V + 0.08 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 100 kHz to 300 kHz) | 1 V to 10 V | 1 mV + 0.3 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 300 kHz to 1 MHz) | 1 V to 10 V | 1 mV + 1 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 1 MHz to 2 MHz) | 1 V to 10 V | 1 mV + 1.5 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 1 Hz to 40 Hz) | 10 V to 100 V | 4 mV + 0.02 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 40 Hz to 1 kHz) | 10 V to 100 V | 2 mV + 0.02 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 1 kHz to 20 kHz) | 10 V to 100 V | 2 mV + 0.02 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 20 kHz to 50 kHz) | 10 V to 100 V | 2 mV + 0.035 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 50 kHz to 100 kHz) | 10 V to 100 V | 2 mV + 0.12 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |



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| Electrical | Equipment to Output AC Voltage (@ 100 kHz to 300 kHz) | 10 V to 100 V | 10 mV + 0.4 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 300 kHz to 1 MHz) | 10 V to 100 V | 10 mV + 1.5 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 1 Hz to 40 Hz) | 100 V to 1 000 V | 40 mV + 0.04 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 40 Hz to 1 kHz) | 100 V to 1 000 V | 20 mV + 0.04 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 1 kHz to 20 kHz) | 100 V to 1 000 V | 20 mV + 0.06 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 20 kHz to 50 kHz) | 100 V to 1 000 V | 20 mV + 0.12 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Voltage (@ 50 kHz to 100 kHz) | 100 V to 1 000 V | 20 mV + 0.3 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz) | 1 mV to 33 mV | 22.6 μ V + 0.35 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz) | 1 mV to 33 mV | 22.7 μ V + 0.15 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz) | 1 mV to 33 mV | 22.7 μ V + 0.2 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |



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| Electrical | Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz) | 1 mV to 33 mV | 23.4 μ V + 0.25 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz) | 1 mV to 33 mV | 39.5 μ V + 0.35 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz) | 1 mV to 33 mV | 170 μ V + 1 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz) | 33 mV to 330 mV | 73 μ V + 0.25 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz) | 33 mV to 330 mV | 43 μ V + 0.05 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz) | 33 mV to 330 mV | 44 μ V + 0.1 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz) | 33 mV to 330 mV | 71 μ V + 0.16 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz) | 33 mV to 330 mV | 229 μ V + 0.24 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz) | 33 mV to 330 mV | 1.33 mV + 0.7 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz) | 0.33 V to 3.3 V | 480 μ V + 0.15 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |



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| Electrical | Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz) | 0.33 V to 3.3 V | 290 μ V + 0.03 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz) | 0.33 V to 3.3 V | 290 μ V + 0.08 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz) | 0.33 V to 3.3 V | 610 μ V + 0.14 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz) | 0.33 V to 3.3 V | 2.3 mV + 0.24 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 100 kHz to 500 kHz) | 0.33 V to 3.3 V | 13.3 mV + 0.5 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 10 Hz to 45 Hz) | 3.3 V to 33 V | 7 mV + 0.15 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 45 Hz to 10 kHz) | 3.3 V to 33 V | 3.6 mV + 0.04 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz) | 3.3 V to 33 V | 5.6 mV + 0.08 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 20 kHz to 50 kHz) | 3.3 V to 33 V | 9.2 mV + 0.19 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 50 kHz to 100 kHz) | 3.3 V to 33 V | 21.5 mV + 0.24 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |



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|----------------------|--|---|---|--|---|-----------|----------------------|
| Electrical | Equipment to Measure AC Voltage (@ 45 Hz to 1 kHz) | 33 V to 330 V | 39.6 mV + 0.05 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 1 kHz to 10 kHz) | 33 V to 330 V | 30 mV + 0.08 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 10 kHz to 20 kHz) | 33 V to 330 V | 30 mV + 0.09 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 45 Hz to 1 kHz) | 330 V to 1 020 V | 130 mV + 0.05 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 1 kHz to 5 kHz) | 330 V to 1 020 V | 100 mV + 0.2 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Voltage (@ 5 kHz to 10 kHz) | 330 V to 1 020 V | 500 mV + 0.2 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Output DC Current | 0.13 nA to 100 nA | 0.04 nA + 0.003 5 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output DC Current | 100 nA to 1 μ A | 0.04 nA + 0.002 5 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output DC Current | 1 μ A to 10 μ A | 0.1 nA + 0.002 5 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output DC Current | 10 μ A to 100 μ A | 0.8 nA + 0.002 5 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output DC Current | 100 μ A to 1 mA | 5 nA + 0.002 5 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output DC Current | 1 mA to 10 mA | 50 nA + 0.002 5 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |



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Electrical Test Instruments, LLC

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|----------------------|---|---|---|--|---|-----------|----------------------|
| Electrical | Equipment to Output DC Current | 10 mA to 100 mA | 0.5 μ A + 0.004 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output DC Current | 100 mA to 1 A | 10 μ A + 0.012 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Measure DC Current | 1.44 mA to 3.3 mA | 0.05 μ A + 0.013 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure DC Current | 3.3 mA to 33 mA | 0.25 μ A + 0.01 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure DC Current | 33 mA to 330 mA | 3.3 μ A + 0.01 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure DC Current | 0.33 A to 2.2 A | 44 μ A + 0.03 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure DC Current | 2.2 A to 11 A | 330 μ A + 0.06 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure DC Current | 11 A to 16.5 A | 0.002 A + 0.25 % of Reading | Fluke 5500A Coil | T.O. 33K1-4-2513-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure DC Current | 16.5 A to 150 A | 0.015 A + 0.25 % of Reading | Fluke 5500A Coil | T.O. 33K1-4-2513-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure DC Current | 150 A to 550 A | 0.05 A + 0.25 % of Reading | Fluke 5500A Coil | T.O. 33K1-4-2513-1 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 10 Hz to 20 Hz) | 1.3 μ A to 100 μ A | 0.03 μ A + 0.4 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 20 Hz to 45 Hz) | 0.51 μ A to 100 μ A | 0.03 μ A + 0.15 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 45 Hz to 5 kHz) | 0.24 μ A to 100 μ A | 0.03 μ A + 0.06 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |



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| Electrical | Equipment to Output AC Current (@ 10 Hz to 20 Hz) | 100 μ A to 1 mA | 0.2 μ A + 0.4 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 20 Hz to 45 Hz) | 100 μ A to 1 mA | 0.2 μ A + 0.15 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 45 Hz to 100 Hz) | 100 μ A to 1 mA | 0.2 μ A + 0.06 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 100 Hz to 5 kHz) | 100 μ A to 1 mA | 0.2 μ A + 0.03 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 5 kHz to 20 kHz) | 100 μ A to 1 mA | 0.2 μ A + 0.06 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 20 kHz to 50 kHz) | 100 μ A to 1 mA | 0.4 μ A + 0.4 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 50 kHz to 100 kHz) | 100 μ A to 1 mA | 1.5 μ A + 0.55 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 10 Hz to 20 Hz) | 1 mA to 10 mA | 2 μ A + 0.4 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 20 Hz to 45 Hz) | 1 mA to 10 mA | 2 μ A + 0.15 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 45 Hz to 100 Hz) | 1 mA to 10 mA | 2 μ A + 0.06 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |



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| Electrical | Equipment to Output AC Current (@ 100 Hz to 5 kHz) | 1 mA to 10 mA | 2 μ A + 0.03 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 5 kHz to 20 kHz) | 1 mA to 10 mA | 2 μ A + 0.06 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 20 kHz to 50 kHz) | 1 mA to 10 mA | 4 μ A + 0.4 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 50 kHz to 100 kHz) | 1 mA to 10 mA | 15 μ A + 0.55 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 10 Hz to 20 Hz) | 10 mA to 100 mA | 20 μ A + 0.4 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 20 Hz to 45 Hz) | 10 mA to 100 mA | 20 μ A + 0.15 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 45 Hz to 100 Hz) | 10 mA to 100 mA | 20 μ A + 0.06 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 100 Hz to 5 kHz) | 10 mA to 100 mA | 20 μ A + 0.03 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 5 kHz to 20 kHz) | 10 mA to 100 mA | 20 μ A + 0.06 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 20 kHz to 50 kHz) | 10 mA to 100 mA | 40 μ A + 0.4 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |



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|----------------------|--|---|---|--|---|-----------|----------------------|
| Electrical | Equipment to Output AC Current (@ 50 kHz to 100 kHz) | 10 mA to 100 mA | 150 μ A + 0.55 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 10 Hz to 20 Hz) | 100 mA to 1 A | 0.2 mA + 0.4 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 20 Hz to 45 Hz) | 100 mA to 1 A | 0.2 mA + 0.16 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 45 Hz to 100 Hz) | 100 mA to 1 A | 0.2 mA + 0.08 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 100 Hz to 5 kHz) | 100 mA to 1 A | 0.2 mA + 0.1 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 5 kHz to 20 kHz) | 100 mA to 1 A | 0.2 mA + 0.3 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Output AC Current (@ 20 kHz to 50 kHz) | 100 mA to 1 A | 0.4 mA + 1 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AH-91 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 10 Hz to 20 Hz) | 0.029 mA to 0.329 99 mA | 0.23 μ A + 0.25 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 20 Hz to 45 Hz) | 0.029 mA to 0.329 99 mA | 0.49 μ A + 0.13 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 45 Hz to 1 kHz) | 0.029 mA to 0.329 99 mA | 0.58 μ A + 0.13 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |



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| Electrical | Equipment to Measure AC Current (@ 1 kHz to 5 kHz) | 0.029 mA to 0.329 99 mA | 0.64 μ A + 0.4 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 5 kHz to 10 kHz) | 0.029 mA to 0.329 99 mA | 1.35 μ A + 1.25 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 10 Hz to 20 Hz) | 0.33 mA to 3.3 mA | 0.76 μ A + 0.2 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 20 Hz to 45 Hz) | 0.33 mA to 3.3 mA | 0.8 μ A + 0.1 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 45 Hz to 1 kHz) | 0.33 mA to 3.3 mA | 0.72 μ A + 0.1 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 1 kHz to 5 kHz) | 0.33 mA to 3.3 mA | 0.79 μ A + 0.2 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 5 kHz to 10 kHz) | 0.33 mA to 3.3 mA | 0.79 μ A + 0.6 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 10 Hz to 20 Hz) | 3.3 mA to 33 mA | 3 μ A + 0.2 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 20 Hz to 45 Hz) | 3.3 mA to 33 mA | 3 μ A + 0.1 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 45 Hz to 1 kHz) | 3.3 mA to 33 mA | 3 μ A + 0.09 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |



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| Electrical | Equipment to Measure AC Current (@ 1 kHz to 5 kHz) | 3.3 mA to 33 mA | 3 μ A + 0.2 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 5 kHz to 10 kHz) | 3.3 mA to 33 mA | 3 μ A + 0.6 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 10 Hz to 20 Hz) | 33 mA to 330 mA | 30 μ A + 0.2 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 20 Hz to 45 Hz) | 33 mA to 330 mA | 30 μ A + 0.1 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 45 Hz to 1 kHz) | 33 mA to 330 mA | 30 μ A + 0.09 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 1 kHz to 5 kHz) | 33 mA to 330 mA | 30 μ A + 0.2 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 5 kHz to 10 kHz) | 33 mA to 330 mA | 30 μ A + 0.6 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 10 Hz to 45 Hz) | 0.33 A to 2.2 A | 300 μ A + 0.2 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 45 Hz to 1 kHz) | 0.33 A to 2.2 A | 300 μ A + 0.1 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 1 kHz to 5 kHz) | 0.33 A to 2.2 A | 300 μ A + 0.75 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |



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| Electrical | Equipment to Measure AC Current (@ 45 Hz to 65 Hz) | 2.2 A to 11 A | 2 000 μ A + 0.06 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 65 Hz to 500 Hz) | 2.2 A to 11 A | 2 000 μ A + 0.1 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 500 Hz to 1 kHz) | 2.2 A to 11 A | 2 000 μ A + 0.33 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 45 Hz to 65 Hz) | 10 A to 16.5 A | 0.003 A + 0.28 % of Reading | Fluke 5500A/Coil | T.O. 33K1-4-2513-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 65 Hz to 440 Hz) | 10 A to 16.5 A | 0.003 A + 0.79 % of Reading | Fluke 5500A/Coil | T.O. 33K1-4-2513-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 45 Hz to 65 Hz) | 16.5 A to 150 A | 0.025 A + 0.28 % of Reading | Fluke 5500A/Coil | T.O. 33K1-4-2513-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 65 Hz to 440 Hz) | 16.5 A to 150 A | 0.027 A + 0.79 % of Reading | Fluke 5500A/Coil | T.O. 33K1-4-2513-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 45 Hz to 65 Hz) | 150 A to 550 A | 0.09 A + 0.28 % of Reading | Fluke 5500A/Coil | T.O. 33K1-4-2513-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure AC Current (@ 65 Hz to 440 Hz) | 150 A to 550 A | 0.1 A + 0.79 % of Reading | Fluke 5500A/Coil | T.O. 33K1-4-2513-1 | F1, F2 | F, O |
| Electrical | Equipment to Output Resistance | 0.005 Ω to 10 Ω | 0.000 05 Ω + 0.001 8 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AR-151 | F1, F2 | F, O |
| Electrical | Equipment to Output | 10 Ω to 100 Ω | 0.000 05 Ω + 0.001 5 | Hewlett Packard | NAVAIR 17-20AR- | F1, F2 | F, O |



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|----------------------|--|---|---|--|---|-----------|----------------------|
| | Resistance | | % of Reading | 3458A Opt 002 | 151 | | |
| Electrical | Equipment to Output Resistance | 100 Ω to 1 k Ω | 0.000 05 Ω + 0.001 3 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AR-151 | F1, F2 | F, O |
| Electrical | Equipment to Output Resistance | 1 k Ω to 10 k Ω | 0.005 Ω + 0.001 3 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AR-151 | F1, F2 | F, O |
| Electrical | Equipment to Output Resistance | 10 k Ω to 100 k Ω | 0.05 Ω + 0.001 3 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AR-151 | F1, F2 | F, O |
| Electrical | Equipment to Output Resistance | 100 k Ω to 1 M Ω | 2 Ω + 0.001 8 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AR-151 | F1, F2 | F, O |
| Electrical | Equipment to Output Resistance | 1 M Ω to 10 M Ω | 100 Ω + 0.005 3 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AR-151 | F1, F2 | F, O |
| Electrical | Equipment to Output Resistance | 10 M Ω to 100 M Ω | 1 k Ω + 0.051 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AR-151 | F1, F2 | F, O |
| Electrical | Equipment to Output Resistance | 100 M Ω to 1 G Ω | 10 k Ω + 0.51 % of Reading | Hewlett Packard 3458A Opt 002 | NAVAIR 17-20AR-151 | F1, F2 | F, O |
| Electrical | Equipment to Measure Resistance | 50 m Ω to 11 Ω | 0.008 Ω + 0.012 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Resistance | 11 Ω to 33 Ω | 0.015 Ω + 0.012 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Resistance | 33 Ω to 110 Ω | 0.015 Ω + 0.009 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Resistance | 110 Ω to 330 Ω | 0.015 Ω + 0.009 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Resistance | 330 Ω to 1.1 k Ω | 0.061 Ω + 0.009 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Resistance | 1.1 k Ω to 3.3 k Ω | 0.078 Ω + 0.009 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Resistance | 3.3 k Ω to 11 k Ω | 0.66 Ω + 0.009 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |



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Electrical Test Instruments, LLC

16415 Northcross Drive, Suite A, Huntersville, NC 28078

Contact Name: Michael Griffith Phone: 704-535-0100

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|----------------------|--|---|---|--|---|-----------|----------------------|
| Electrical | Equipment to Measure Resistance | 11 k Ω to 33 k Ω | 0.81 Ω + 0.009 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Resistance | 33 k Ω to 110 k Ω | 0.011 % of reading + 6.7 Ω | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Resistance | 110 k Ω to 330 k Ω | 0.012 % of reading + 8.7 Ω | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Resistance | 330 k Ω to 1.5 M Ω | 0.015 % of reading + 65 Ω | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Resistance | 1.1 M Ω to 3.3 M Ω | 0.015 % of reading + 107 Ω | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Resistance | 3.3 M Ω to 11 M Ω | 0.06 % of reading + 740 Ω | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Resistance | 11 M Ω to 33 M Ω | 0.1 % of reading + 6550 Ω | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Resistance | 33 M Ω to 110 M Ω | 0.5 % of reading + 25.5 k Ω | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Resistance | 110 M Ω to 330 M Ω | 0.5 % of reading + 87.5 k Ω | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Capacitance | 0.33 nF to 11 nF | 0.01 nF + 0.5 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Capacitance | 11 nF to 110 nF | 0.01 nF + 0.25 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Capacitance | 110 nF to 330 nF | 0.3 nF + 0.25 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Capacitance | 0.33 μ F to 1.1 μ F | 1 nF + 0.25 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Capacitance | 1.1 μ F to 3.3 μ F | 3 nF + 0.35 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Capacitance | 3.3 μ F to 11 μ F | 10 nF + 0.35 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |



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| Electrical | Equipment to Measure Capacitance | 11 μ F to 33 μ F | 30 nF + 0.4 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Capacitance | 33 μ F to 110 μ F | 100 nF + 0.5 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Capacitance | 110 μ F to 330 μ F | 300 nF + 0.7 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Capacitance | 330 μ F to 1.1 mF | 300 nF + 1 % of Reading | Fluke 5500A | T.O. 33K8-4-15-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Inductance (Fixed Points) (@ 100 Hz) | 100 mH | 0.12 mH | General Radio 1482-L | T.O. 33K2-4-349-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Inductance (Fixed Points) (@ 200 Hz) | 100 mH | 0.12 mH | General Radio 1482-L | T.O. 33K2-4-349-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Inductance (Fixed Points) (@ 400 Hz) | 100 mH | 0.12 mH | General Radio 1482-L | T.O. 33K2-4-349-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Inductance (Fixed Points) (@ 1 000 Hz) | 100 mH | 0.12 mH | General Radio 1482-L | T.O. 33K2-4-349-1 | F1, F2 | F, O |
| Electrical | Equipment to Measure Inductance (Fixed Points) (@ 10 kHz) | 100 mH | 0.13 mH | General Radio 1482-L | T.O. 33K2-4-349-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type B | 250 °C to 350 °C | 0.95 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |



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|----------------------|--|---|---|--|---|-----------|----------------------|
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type B | 350 °C to 445 °C | 0.74 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type B | 445 °C to 580 °C | 0.58 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type B | 580 °C to 750 °C | 0.45 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type B | 750 °C to 1 000 °C | 0.37 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type B | 1 000 °C to 1 820 °C | 0.17 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type E | -270 °C to -245 °C | 1.2 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |



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|----------------------|--|---|---|--|---|-----------|----------------------|
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type E | -245 °C to -195 °C | 0.18 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type E | -195 °C to -155 °C | 0.1 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type E | -155 °C to -90 °C | 0.08 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type E | -90 °C to 15 °C | 0.07 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type E | 15 °C to 890 °C | 0.06 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type E | 890 °C to 1 000 °C | 0.07 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |



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|----------------------|--|---|---|--|---|-----------|----------------------|
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type J | -210 °C to -180 °C | 0.12 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type J | -180 °C to -120 °C | 0.1 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type J | -120 °C to -50 °C | 0.08 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type J | 990 °C to 1 200 °C | 0.07 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type K | -270 °C to -255 °C | 2.2 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type K | -225 °C to -195 °C | 0.7 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |



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|----------------------|--|---|---|--|---|-----------|----------------------|
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type K | -195 °C to 115 °C | 0.12 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type K | -115 °C to -55 °C | 0.09 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type K | -55 °C to 1 000 °C | 0.07 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type K | 1 000 °C to 1 372 °C | 0.08 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type N | -270 °C to -260 °C | 5 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type N | -260 °C to -200 °C | 1 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |



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| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type N | -200 °C to -140 °C | 0.23 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type N | -140 °C to -70 °C | 0.15 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type N | -70 °C to 25 °C | 0.12 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type N | 25 °C to 160 °C | 0.1 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type N | 160 °C to 1 300 °C | 0.09 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type R | -50 °C to -30 °C | 0.65 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |



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|----------------------|--|---|---|--|---|-----------|----------------------|
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type R | -30 °C to 45 °C | 0.55 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type R | 45 °C to 160 °C | 0.4 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type R | 160 °C to 380 °C | 0.3 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type R | 380 °C to 775 °C | 0.26 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type R | 775 °C to 1 768.1 °C | 0.22 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type S | -50 °C to -30 °C | 0.62 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |



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| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type S | -30 °C to 45 °C | 0.56 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type S | 45 °C to 105 °C | 0.4 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type S | 105 °C to 310 °C | 0.33 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type S | 310 °C to 615 °C | 0.29 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type S | 615 °C to 1 768.1 °C | 0.26 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type T | -270 °C to -255 °C | 1.8 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |



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|----------------------|--|---|---|--|---|-----------|----------------------|
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type T | -255 °C to -240 °C | 0.49 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type T | -240 °C to -210 °C | 0.3 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type T | -210 °C to -150 °C | 0.18 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type T | -150 °C to -40 °C | 0.12 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type T | -40 °C to 100 °C | 0.08 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Indication, and Control Equipment used with Thermocouple Type T | 100 °C to 400 °C | 0.07 °C | Ectron 1140A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |



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| Electrical | Temperature Calibration, Equipment to Measure RTD Type Pt 385, 100 Ω | -200 °C to -80 °C | 0.05 °C | Fluke 5500A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Equipment to Measure RTD Type Pt 385, 100 Ω | -80 °C to 0 °C | 0.05 °C | Fluke 5500A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Equipment to Measure RTD Type Pt 385, 100 Ω | 0 °C to 100 °C | 0.07 °C | Fluke 5500A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Equipment to Measure RTD Type Pt 385, 100 Ω | 100 °C to 300 °C | 0.09 °C | Fluke 5500A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Equipment to Measure RTD Type Pt 385, 100 Ω | 300 °C to 400 °C | 0.1 °C | Fluke 5500A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Equipment to Measure RTD Type Pt 385, 100 Ω | 400 °C to 630 °C | 0.12 °C | Fluke 5500A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |
| Electrical | Temperature Calibration, Equipment to Measure RTD Type Pt 385, 100 Ω | 630 °C to 800 °C | 0.23 °C | Fluke 5500A | T.O. 33K1-4-3368-1 | F1, F2 | F, O |



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|----------------------|--|---|---|--|---|-----------|----------------------|
| Electrical | Oscilloscope AC Voltage (Leveled Sine Wave @ 50 Ω) (@ 0.1 Hz to 300 MHz) | 5 mVp-p to 5 Vp-p | 2.0 % of reading | Fluke 9500B/ 9530 | T.O. 33K3-4-3826-1 | F1, F2 | F, O |
| Electrical | Oscilloscope AC Voltage (Leveled Sine Wave @ 50 Ω) (@ 300 MHz to 550 MHz) | 5 mVp-p to 5 Vp-p | 5.5 % of reading | Fluke 9500B/ 9530 | T.O. 33K3-4-3826-1 | F1, F2 | F, O |
| Electrical | Oscilloscope AC Voltage (Leveled Sine Wave @ 50 Ω) (@ 550 MHz to 1.1 GHz) | 5 mVp-p to 3 Vp-p | 7.5 % of reading | Fluke 9500B/ 9530 | T.O. 33K3-4-3826-1 | F1, F2 | F, O |
| Electrical | Oscilloscope AC Voltage (Leveled Sine Wave @ 50 Ω) (@ 1.1 GHz to 3.2 GHz) | 5 mVp-p to 2 Vp-p | 9.0 % of reading | Fluke 9500B/ 9530 | T.O. 33K3-4-3826-1 | F1, F2 | F, O |
| Electrical | Oscilloscope AC Voltage (Amplitude Vp-p) (@ 1 M Ω Output Impedance) (@ 1 KHz) | 1 mV to 200 Vp-p | 1.0 % + 10 μ V | Fluke 9500B/ 9530 | T.O. 33K3-4-2762-1 | F1, F2 | F, O |
| Electrical | Oscilloscope DC Voltage (@ 1 M Ω Output Impedance) | 1 mV to +/-200 V | 0.025 % + 25 μ V | Fluke 9500B/ 9530 | T.O. 33K3-4-3826-1 | F1, F2 | F, O |
| Electrical | Oscilloscope DC Voltage (@ 50 Ω Output Impedance) | 1 mV to +/-5 V | 0.025 % + 25 μ V | Fluke 9500B/ 9530 | T.O. 33K3-4-3826-1 | F1, F2 | F, O |



Certificate of Accreditation: Supplement

Electrical Test Instruments, LLC

16415 Northcross Drive, Suite A, Huntersville, NC 28078
 Contact Name: Michael Griffith Phone: 704-535-0100

Accreditation is granted to the facility to perform the following conformity assessment activities:

| FIELD OF CALIBRATION | MEASURED INSTRUMENT, QUANTITY OR GAUGE | RANGE (AND SPECIFICATION WHERE APPROPRIATE) | EXPANDED MEASUREMENT UNCERTAINTY (\pm) ¹ | CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED | CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED | FLEX CODE | LOCATION OF ACTIVITY |
|-----------------------------------|--|---|--|--|---|-----------|----------------------|
| Mass, Force, and Weighing Devices | Analytical Balances | 50 g to 500 g | $(4.44 \times 10^{-4} + 3 \times 10^{-6} \text{Wt}) \text{ g}$ | Class 1 Weights | ASTM 898-88 | F1, F2 | F, O |
| Mass, Force, and Weighing Devices | Electronic Balances | 50 g to 2 000 g | $(1.15 \times 10^{-2} + 1 \times 10^{-6} \text{Wt}) \text{ g}$ | Class 1 Weights | ASTM 898-88 | F1, F2 | F, O |
| Mechanical | Pressure Gages | 0 kPa to 6.89 kPa | 0.024 kPa | Fluke 700P22 | T.O. 33K6-4-427-1 | F1, F2 | F, O |
| Mechanical | Pressure Gages | 0 psi to 1 psi | 0.003 5 psi | Fluke 700P22 | T.O. 33K6-4-427-1 | F1, F2 | F, O |
| Mechanical | Pressure Gages | 0 kPa to 68.947 kPa | 0.093 kPa | Druck DPI 610 w/ PDCR 2200-A145 | T.O. 33K6-4-427-1 | F1, F2 | F, O |
| Mechanical | Pressure Gages | 0 psi to 10 psi | 0.014 psi | Druck DPI 610 w/ PDCR 2200-A145 | T.O. 33K6-4-427-1 | F1, F2 | F, O |
| Mechanical | Pressure Gages | 0 kPa to 2 068 kPa | 0.56 kPa | Druck DPI 611 | T.O. 33K6-4-427-1 | F1, F2 | F, O |
| Mechanical | Pressure Gages | 0 psi to 300 psi | 0.081 psi | Druck DPI 611 | T.O. 33K6-4-427-1 | F1, F2 | F, O |
| Mechanical | Pressure Gages | 0 kPa to 6 894 kPa | 3.5 kPa | Fluke 700P08 | T.O. 33K6-4-427-1 | F1, F2 | F, O |
| Mechanical | Pressure Gages | 0 psi to 1 000 psi | 0.5 psi | Fluke 700P08 | T.O. 33K6-4-427-1 | F1, F2 | F, O |
| Mechanical | Pressure Gages | 0 kPa to 34 473 kPa | 28 kPa | Fluke 700P30 | T.O. 33K6-4-427-1 | F1, F2 | F, O |
| Mechanical | Pressure Gages | 0 psi to 5 000 psi | 4 psi | Fluke 700P30 | T.O. 33K6-4-427-1 | F1, F2 | F, O |
| Mechanical | Vacuum Gages | -755 mmHg to -2.5 mmHg | 4.1 mmHg | Druck DPI 611 | T.O. 33K6-4-430-1 | F1, F2 | F, O |
| Mechanical | Vacuum Gages | -29.72 inHg to -0.098 inHg | 0.16 inHg | Druck DPI 611 | T.O. 33K6-4-430-1 | F1, F2 | F, O |
| Mechanical | Torque Tools | 2.825 N•m to 28.25 N•m | 0.28 N•m | Mountz BMX250I | T.O. 33K6-4-2193-1 | F1, F2 | F, O |
| Mechanical | Torque Tools | 25 lbf•in to 250 lbf•in | 2.5 lbf•in | Mountz BMX250I | T.O. 33K6-4-2193-1 | F1, F2 | F, O |
| Mechanical | Torque Tools | 33.9 N•m to 339 N•m | 3.5 N•m | Mountz BMX250F | T.O. 33K6-4-2193-1 | F1, F2 | F, O |
| Mechanical | Torque Tools | 25 lbf•ft to 250 lbf•ft | 2.6 lbf•ft | Mountz BMX250F | T.O. 33K6-4-2193-1 | F1, F2 | F, O |



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|----------------------|---|---|---|--|---|-----------|----------------------|
| Mechanical | Torque Tools | 0.28 Nm to 2.8 Nm | 0.028 Nm | AWS QCI-25 | T.O. 33K6-4-2193-1 | F1, F2 | F, O |
| Thermodynamic | Equipment to Measure RH (Fixed points) | 11.3 % RH | 1.3 % RH | Vaisala 19729HM | M210316EN-A | F1, F2 | F, O |
| Thermodynamic | Equipment to Measure RH (Fixed points) | 75 % RH | 1.5 % RH | Vaisala 19731HM | M210316EN-A | F1, F2 | F, O |
| Thermodynamic | Equipment to Measure RH (Fixed points) | 97 % RH | 2 % RH | Vaisala 19732HM | M210316EN-A | F1, F2 | F, O |
| Thermodynamic | Equipment to Output RH | 10 % RH to 90 % RH | 1.2 % RH | Vaisala HMI41 w/ HMP46 | T.O. 33K5-4-585-1 | F1, F2 | F, O |
| Thermodynamic | Infrared Thermometer | 50 °C to 500 °C | 2 °C | Fluke 9132 | NAVAIR 17-20ST-220 | F1, F2 | F, O |
| Thermodynamic | Equipment to Measure Temperature | -20 °C to 0 °C | 0.026 °C | Additel ADT282 w/ Accumac AM1751 | NAVAIR 17-20ST-204 | F1, F2 | F, O |
| Thermodynamic | Equipment to Measure Temperature | 0 °C to 420 °C | 0.046 °C | Additel ADT282 w/ Accumac AM1751 | NAVAIR 17-20ST-204 | F1, F2 | F, O |
| Thermodynamic | Equipment to Measure Temperature | 420 °C to 670 °C | 0.067 °C | Additel ADT282 w/ Accumac AM1751 | NAVAIR 17-20ST-204 | F1, F2 | F, O |
| Time and Frequency | Stopwatches and Timers | 5 min to 180 min | 0.098 s | Hewlett Packard 53181A | NIST-SP-960-12 | F1, F2 | F, O |
| Time and Frequency | Tachometers (Mechanical) | 575 rpm to 3 500 rpm | 0.4 rpm | Automation Direct CCT-AN-A120 Counter | T.O 33K6-4-869-1 | F1, F2 | F, O |
| Time and Frequency | Tachometers (Photo) | 60 rpm to 100 000 rpm | 1.2 rpm | Fluke 5500A | T.O 33K6-4-869-1 | F1, F2 | F, O |
| Time and Frequency | Oscilloscope (Time Markers) (in a 1,2,2.5,4,5 sequence) | 900.91 ns to 83 μ s | 0.000 025 % of Reading | Fluke 9500B/ 9530 | T.O. 33K3-4-3826-1 | F1, F2 | F, O |
| Time and Frequency | Oscilloscope (Time Markers) (in a 1,2,2.5,4,5 sequence) | 83 μ s to 55 s | 0.0 003 % of Reading | Fluke 9500B/ 9530 | T.O. 33K3-4-3826-1 | F1, F2 | F, O |



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Accreditation is granted to the facility to perform the following conformity assessment activities:

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.
2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.

3. Location of activity:

Location

Code

F

Conformity assessment activity is performed at the CABs fixed facility

O

Conformity assessment activity is performed onsite at the CABs customer location

Location

4. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location.
5. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.
6. The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement.