

**CERTIFICATE OF  
 CALIBRATION**



Certificate No. ACT-1272

<b>CERTIFICATION NUMBER</b>	CP134-00231-840	<b>IDENTIFICATION</b>	EL-001G
<b>FOR</b>	Sample Manufacturing 3121 Medalist Drive Oshkosh, WI 54902	<b>SERIAL NUMBER</b>	231
<b>TEST INSTRUMENT</b>	Multimeter Digital	<b>PURCHASE ORDER #</b>	
<b>MAKE</b>	Fluke	<b>PROCEDURES FOLLOWED</b>	EL-001G rev. 0
<b>MODEL</b>	179	<b>STANDARDS USED</b>	
<b>CUSTOMER LOCATION</b>	Location1 Location2	<b>INSTRUMENT</b>	<b>SERIAL NUMBER</b>
<b>CONDITION RECEIVED</b>	In Tolerance	AG2-040	R1294K21
<b>CONDITION RETURNED</b>	In Tolerance	AG3-016	61010077
<b>CALIBRATED BY</b>	Brian L Gliszinski	FVT-032	FVT-032
<b>REVIEWED/ISSUED</b>	D.P. 07/29/2025	<b>TRACE NUMBER</b>	<b>NEXT CAL</b>
<b>CALIBRATION LOCATION</b>	FVM	AG2-040	C0207-38729-741
<b>ENVIRONMENT</b>	69.0°F, 31.0%RH, 28.92inHg	AG3-016	C0073-61648-834
<b>CALIBRATION DATE</b>	05/14/2025	FVT-032	C0120-54378-589
<b>RECALIBRATION DUE</b>	05/14/2026		



**CALIBRATION RESULTS**

\* DENOTES "OUT OF TOLERANCE"

FEATURE	NOMINAL	LOWER LIMIT	UPPER LIMIT	AS FOUND	AS LEFT	UNCERTAINTY
AC VOLTS						
600 mV Range						
300.0 mV @ 45 Hz	300.0	296.7	303.3	300.1	300.1	6.0E-2
6 V Range						
5.000 V @ 500 Hz	5.000	4.947	5.053	5.003	5.003	6.0E-4
5.000 V @ 1 kHz	5.000	4.897	5.103	5.001	5.001	6.0E-4
60 V Range						
50.00 V @ 45 Hz	50.00	49.47	50.53	50.02	50.02	6.0E-3
50.00 V @ 1 kHz	50.00	48.97	51.03	50.05	50.05	6.0E-3
600 V Range						
300.0 V @ 45 Hz	300.0	296.7	303.3	300.1	300.1	6.0E-2
500.0 V @ 500 Hz	500.0	494.7	505.3	500.3	500.3	6.0E-2
500.0 V @ 1 kHz	500.0	489.7	510.3	500.5	500.5	6.0E-2
1000 V Range						
1000 V @ 45 Hz	1000	987	1013	1001	1001	6.0E-1
AC VOLTS FREQUENCY						
45.00 Hz @ 1 V	45.00	44.94	45.06	45.01	45.01	6.0E-3
50.00 kHz @ 5 V	50.00	49.94	50.06	50.02	50.02	6.0E-3

# Fox Valley Metrology

3114 Medalist Drive

Oshkosh, WI 54902

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<https://www.FoxValleyMetrology.com>

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FEATURE	NOMINAL	LOWER LIMIT	UPPER LIMIT	AS FOUND	AS LEFT	UNCERTAINTY
DC VOLTAGE						
6 V Range						
5.000 V	5.000	4.930	5.070	5.020	5.020	6.0E-4
600 V Range						
300.0 V	300.0	299.5	300.5	300.1	300.1	6.0E-2
1000 V Range						
1000 V	1000	997	1003	1000	1000	6.0E-1
-1000 V	-1000	-1003	-997	-1000	-1000	6.0E-1
DC VOLTS						
FREQUENCY						
45.00 Hz @ 3 V	45.00	44.94	45.06	45.01	45.01	6.0E-3
50.00 kHz @ 30 V	50.00	49.94	50.06	50.01	50.01	6.0E-3
DC MILLIVOLTS						
30.0 mV	30.0	29.8	30.2	30.0	30.0	6.0E-2
-300.0 mV	-300.0	-300.5	-299.5	-299.9	-299.9	6.0E-2
600.0 mV	600.0	599.3	600.7	600.1	600.1	6.0E-2
TEMPERATURE						
0.0 °C	0.0	-1.0	1.0	0.0	0.0	6.0E-2
-40.0 °C	-40.0	-41.4	-38.6	-39.9	-39.9	6.0E-2
400.0 °C	400.0	395.0	405.0	400.1	400.1	6.0E-2
OHMS						
600 Ohm Range						
500.0 Ohm	500.0	495.3	504.7	500.1	500.1	6.0E-2
50 MOhm Range						
19.00 MOhm	19.00	18.68	19.32	19.01	19.01	6.0E-3
CAPACITANCE						
1000 nF Range						
900 nF	900	887	913	901	901	6.0E-1
CONTINUITY						
25 Ohms: Beeper On						
250 Ohms: Beeper Off						
DIODE TEST						
2.000 V	2.000	1.978	2.022	2.001	2.001	6.0E-4
AC MILLIAMPS						

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FEATURE	NOMINAL	LOWER LIMIT	UPPER LIMIT	AS FOUND	AS LEFT	UNCERTAINTY
60 mA Range						
3.00 mA @ 45 Hz	3.00	2.92	3.08	3.01	3.01	6.0E-3
50.00 mA @ 1 kHz	50.00	49.22	50.78	50.02	50.02	6.0E-3
400 mA Range						
400.0 mA @ 1 kHz	400.0	393.7	406.3	400.3	400.3	6.0E-2
AC AMPS						
6 A Range						
4.000 A @ 45 Hz	4.000	3.937	4.063	4.001	4.001	6.0E-4
10A Range						
9.00 A @ 1 kHz	9.00	8.83	9.17	9.01	9.01	6.0E-3
DC MILLIAMPS						
60 mA Range						
3.00 mA	3.00	2.94	3.06	3.02	3.02	6.0E-3
50.00 mA	50.00	49.47	50.53	50.03	50.03	6.0E-3
400 mA Range						
-400.0 mA	-400.0	-404.3	-395.7	-399.9	-399.9	6.0E-2
DC AMPS						
6 A Range						
4.000 A	4.000	3.957	4.043	4.002	4.002	6.0E-4
10 A Range						
-9.00 A	-9.00	-9.12	-8.88	-8.99	-8.99	6.0E-3

**COMMENTS**

Example certificate, actual results and uncertainties will be reported at the time of calibration.  
 Nominal and limits may vary based on actual make/model.

- This certificate shall not be altered in any form or reproduced, except in full, without prior written approval from originating lab. These results relate only to the item(s) calibrated. Form Revision 10: 06/04/2024
- Total expanded measurement uncertainties expressed are based on a confidence level of 95%; coverage factor of (k=2). The statement of compliance in this certificate was issued without taking the uncertainty of measurement into consideration. The customer shall assess the results and uncertainty when determining if the results meet their needs. (This is considered "shared responsibility.") Uncertainties expressed in nominal units.
- The calibrations within the certificate/report are traceable through NIST or another National Metrology Institute to the International System of Units (SI). Calibration was completed in accordance with ISO/IEC 17025:2017, ANSI/NCCL Z540-1-1994 and ANSI/NCCL Z540.3-2006. Other standards listed upon request.