

**CERTIFICATE OF
 CALIBRATION**



Certificate No. ACT-1272

CERTIFICATION NUMBER CP134-00271-840	IDENTIFICATION EL-073A
FOR Sample Manufacturing 3121 Medalist Drive Oshkosh, WI 54902	SERIAL NUMBER 271
TEST INSTRUMENT Electrometer	PURCHASE ORDER #
MAKE Keithley	PROCEDURES FOLLOWED EL-073A rev. 0
MODEL 6517B	STANDARDS USED
CUSTOMER LOCATION Location1 Location2	
CONDITION RECEIVED In Tolerance	INSTRUMENT SERIAL NUMBER TRACE NUMBER NEXT CAL
CONDITION RETURNED In Tolerance	FVS-275E 16783134 C0134-20963-690 07/31/2025
CALIBRATED BY Brian L Gliszinski	FVS-316 9455204 C0345-27251-524 07/31/2025
REVIEWED/ISSUED D.P. 07/29/2025	FVS-425A 3882097 C0249-34583-690 07/31/2025
CALIBRATION LOCATION FVM	FVS-518 12080013 C0250-55712-629 07/31/2025
ENVIRONMENT 69.0°F, 31.0%RH, 28.92inHg	FVS-985B E1-23336720 C0269-31725-524 07/31/2025
CALIBRATION DATE 05/14/2025	FVS-985C B2-2331946 C0269-31883-524 07/31/2025
RECALIBRATION DUE 05/14/2026	



CALIBRATION RESULTS

* DENOTES "OUT OF TOLERANCE"

FEATURE	NOMINAL	LOWER LIMIT	UPPER LIMIT	AS FOUND	AS LEFT	UNCERTAINTY
METER VERIFICATION						
DC Volts						
Range	(V)	(V)	(V)	(V)	(V)	(V)
2V	1.900000	1.899485	1.900515	1.900001	1.900001	6.0E-7
	-1.900000	-1.900515	-1.899485	-1.900000	-1.900000	6.0E-7
20V	19.0000	18.9950	19.0050	19.0000	19.0000	6.0E-5
	-19.0000	-19.0050	-18.9950	-18.9999	-18.9999	6.0E-5
200V	190.000	189.883	190.117	190.002	190.002	6.0E-4
	-190.000	-190.117	-189.883	-189.999	-189.999	6.0E-4
DC Amps						
Range	(nA)	(nA)	(nA)	(nA)	(nA)	(nA)
2nA	1.90000	1.88590	1.91410	1.90000	1.90000	6.0E-6
	-1.90000	-1.91410	-1.88590	-1.90000	-1.90000	6.0E-6
20nA	19.0000	18.9615	19.0385	19.0002	19.0002	6.0E-5
	-19.0000	-19.0385	-18.9615	-18.9999	-18.9999	6.0E-5
200nA	190.000	189.615	190.385	190.001	190.001	6.0E-4
	-190.000	-190.385	-189.615	-190.000	-190.000	6.0E-4
	(uA)	(uA)	(uA)	(uA)	(uA)	(uA)
2uA	1.900000	1.898000	1.902000	1.900001	1.900001	6.0E-7
	-1.900000	-1.902000	-1.898000	-1.899997	-1.899997	6.0E-7
20uA	19.0000	18.9805	19.0195	19.0001	19.0001	6.0E-5
	-19.0000	-19.0195	-18.9805	-18.9998	-18.9998	6.0E-5
200uA	190.000	189.805	190.195	190.004	190.004	6.0E-4
	-190.000	-190.195	-189.805	-189.998	-189.998	6.0E-4
	(mA)	(mA)	(mA)	(mA)	(mA)	(mA)
2mA	1.90000	1.89800	1.90200	1.90001	1.90001	6.0E-6

Fox Valley Metrology

3114 Medalist Drive

Oshkosh, WI 54902

(920) 426-5894 • Fax (920) 426-8120

<https://www.FoxValleyMetrology.com>

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FEATURE	NOMINAL	LOWER LIMIT	UPPER LIMIT	AS FOUND	AS LEFT	UNCERTAINTY
	-1.90000	-1.90200	-1.89800	-1.89998	-1.89998	6.0E-6
20mA	19.0000	18.9805	19.0195	19.0000	19.0000	6.0E-5
	-19.0000	-19.0195	-18.9805	-18.9999	-18.9999	6.0E-5
Coulombs Verification						
Range	(nC)	(nC)	(nC)	(nC)	(nC)	(nC)
20nC	19.0000	18.9235	19.0765	19.0000	19.0000	6.0E-5
VOLTAGE						
SOURCE	(V)	(V)	(V)	(V)	(V)	(V)
VERIFICATION	0.00000	-0.01000	0.01000	0.00001	0.00001	6.0E-6
100 V Range	25.0000	24.9525	25.0475	25.0000	25.0000	6.0E-5
	50.0000	49.9150	50.0850	50.0002	50.0002	6.0E-5
	75.0000	74.8775	75.1225	75.0001	75.0001	6.0E-5
	100.000	99.840	100.160	100.004	100.004	6.0E-4
1000 V Range	0.00	-0.10	0.10	0.00	0.00	6.0E-3
	250.000	249.525	250.475	250.000	250.000	6.0E-4
	750.000	748.775	751.225	750.001	750.001	6.0E-4
	1000.00	998.40	1001.60	1000.01	1000.01	6.0E-3
Reverse						
Polarity	-25.0000	-25.0475	-24.9525	-25.0000	-25.0000	6.0E-5
100V Range	-50.0000	-50.0850	-49.9150	-49.9999	-49.9999	6.0E-5
	-75.0000	-75.1225	-74.8775	-74.9998	-74.9998	6.0E-5
	-100.000	-100.160	-99.840	-99.999	-99.999	6.0E-4
1000 V Range	-250.000	-250.475	-249.525	-249.998	-249.998	6.0E-4
	-750.000	-751.225	-748.775	-749.999	-749.999	6.0E-4
	-1000.00	-1001.60	-998.40	-999.99	-999.99	6.0E-3
TEMPERATURE						
VERIFICATION	(°C)	(°C)	(°C)	(°C)	(°C)	(°C)
K Type	0.00	-1.50	1.50	0.00	0.00	6.0E-3
	50.00	48.35	51.65	50.01	50.01	6.0E-3
	100.00	98.20	101.80	100.00	100.00	6.0E-3
	150.00	148.05	151.95	150.01	150.01	6.0E-3
HUMIDITY						
VERIFICATION	(%RH)	(%RH)	(%RH)	(%RH)	(%RH)	(%RH)
0.0000Vdc	1	0	2	1	1	6.0E-1
0.2500Vdc	25	24	26	25	25	6.0E-1
0.5000Vdc	50	49	51	50	50	6.0E-1
0.7500Vdc	75	74	76	75	75	6.0E-1
1.0000Vdc	100	99	101	100	100	6.0E-1
Ohms						
Verification	(MOhm)	(MOhm)	(MOhm)	(MOhm)	(MOhm)	(MOhm)
Range						
2MOhm	1.00000	0.99874	1.00126	1.00001	1.00001	6.0E-6
20MOhm	10.0000	9.9874	10.0126	10.0000	10.0000	6.0E-5
200MOhm	100.000	99.849	100.151	100.001	100.001	6.0E-4
2GOhm	1.00000	0.99774	1.00226	1.00002	1.00002	6.0E-6
20GOhm	10.0000	9.9775	10.0225	10.0010	10.0010	6.0E-5

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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.

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- 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/NCSL Z540-1-1994 and ANSI/NCSL Z540.3-2006. Other standards listed upon request.