

**CERTIFICATE OF
 CALIBRATION**



Certificate No. ACT-1272

CERTIFICATION NUMBER	CP134-00367-840	IDENTIFICATION	EL-025A
FOR	Sample Manufacturing 3121 Medalist Drive Oshkosh, WI 54902	SERIAL NUMBER	367
TEST INSTRUMENT	Loop Calibrator	PURCHASE ORDER #	
MAKE	Practical Instrument Electronics	PROCEDURES FOLLOWED	EL-025A rev. 2
MODEL	422 Plus	STANDARDS USED	
CUSTOMER LOCATION	Location1 Location2	INSTRUMENT	SERIAL NUMBER
CONDITION RECEIVED	In Tolerance	FVS-983	6202901
CONDITION RETURNED	In Tolerance	STL-069	2823A02911
CALIBRATED BY	Brian L Gliszinski	STL-288	MY53002760
REVIEWED/ISSUED	D.P. 07/29/2025	STL-582	16783470.72
CALIBRATION LOCATION	FVM	TRACE NUMBER	NEXT CAL
ENVIRONMENT	69.0°F, 31.0%RH, 28.92inHg	CP077-43531-762	07/31/2025
CALIBRATION DATE	05/14/2025	C0351-36219-823	07/31/2025
RECALIBRATION DUE	05/14/2026	C0324-22859-687	07/31/2025
		C0204-16827-690	07/31/2025



CALIBRATION RESULTS

* DENOTES "OUT OF TOLERANCE"

FEATURE	NOMINAL	LOWER LIMIT	UPPER LIMIT	AS FOUND	AS LEFT	UNCERTAINTY
MEASUREMENT ACCURACY	(mA)	(mA)	(mA)	(mA)	(mA)	(mA)
DC Current	0.000	-0.003	0.003	0.000	0.000	6.0E-4
	4.000	3.996	4.004	4.000	4.000	6.0E-4
	8.000	7.995	8.005	8.000	8.000	6.0E-4
	16.000	15.994	16.006	16.000	16.000	6.0E-4
	20.000	19.993	20.007	20.000	20.000	6.0E-4
	24.000	23.992	24.008	24.000	24.000	6.0E-4
DC Voltage	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)
	-13.000	-13.007	-12.993	-13.000	-13.000	6.0E-4
	0.000	-0.006	0.006	0.000	0.000	6.0E-4
	5.000	4.994	5.006	5.000	5.000	6.0E-4
	20.000	19.992	20.008	20.000	20.000	6.0E-4
	40.000	39.991	40.009	40.000	40.000	6.0E-4
	60.000	59.989	60.011	60.000	60.000	6.0E-4
	80.000	79.988	80.012	80.000	80.000	6.0E-4
Themocouple Type K	(°C)	(°C)	(°C)	(°C)	(°C)	(°C)
	-150.0	-150.6	-149.4	-150.0	-150.0	6.0E-2
	0.0	-0.2	0.2	0.0	0.0	6.0E-2
	50.0	49.8	50.2	50.0	50.0	6.0E-2
	250.0	249.8	250.2	250.0	250.0	6.0E-2
	500.0	499.8	500.2	500.0	500.0	6.0E-2
	1000.0	999.8	1000.2	1000.0	1000.0	6.0E-2
	1350.0	1349.7	1350.3	1350.0	1350.0	6.0E-2
SOURCE ACCURACY	(mA)	(mA)	(mA)	(mA)	(mA)	(mA)

Fox Valley Metrology

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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 Current	0.0000	-0.0030	0.0030	0.0000	0.0000	6.0E-5
	4.0000	3.9962	4.0038	4.0000	4.0000	6.0E-5
	8.0000	7.9954	8.0046	8.0000	8.0000	6.0E-5
	16.0000	15.9938	16.0062	16.0000	16.0000	6.0E-5
	20.0000	19.9930	20.0070	20.0000	20.0000	6.0E-5
	24.0000	23.9922	24.0078	24.0000	24.0000	6.0E-5
DC Voltage	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)
	-13.0000	-13.0070	-12.9930	-13.0000	-13.0000	6.0E-5
	0.0000	-0.0060	0.0060	0.0000	0.0000	6.0E-5
	5.0000	4.9936	5.0064	5.0000	5.0000	6.0E-5
	20.0000	19.9924	20.0076	20.0000	20.0000	6.0E-5
	40.0000	39.9908	40.0092	40.0000	40.0000	6.0E-5
	60.0000	59.9892	60.0108	60.0000	60.0000	6.0E-5
	80.0000	79.9876	80.0124	80.0000	80.0000	6.0E-5
Thermocouple Type K	(°C)	(°C)	(°C)	(°C)	(°C)	(°C)
	-150.00	-150.60	-149.40	-150.00	-150.00	6.0E-3
	0.00	-0.20	0.20	0.00	0.00	6.0E-3
	50.00	49.80	50.20	50.00	50.00	6.0E-3
	250.00	249.80	250.20	250.00	250.00	6.0E-3
	500.00	499.80	500.20	500.00	500.00	6.0E-3
	1000.00	999.80	1000.20	1000.00	1000.00	6.0E-3
1350.00	1349.70	1350.30	1350.00	1350.00	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/NCSL Z540-1-1994 and ANSI/NCSL Z540.3-2006. Other standards listed upon request.