

**CERTIFICATE OF
 CALIBRATION**



Certificate No. ACT-1272

CERTIFICATION NUMBER	CP134-00149-840	IDENTIFICATION	EL-020A
FOR	Sample Manufacturing 3121 Medalist Drive Oshkosh, WI 54902	SERIAL NUMBER	149
TEST INSTRUMENT	Soldering Iron Tester	PURCHASE ORDER #	
MAKE	Hakko	PROCEDURES FOLLOWED	EL-020A rev. 2
MODEL	FG-101		
RANGE	32-1300°F/0-40mVAC/0-40ohms		
CUSTOMER LOCATION	Location1 Location2	STANDARDS USED	
CONDITION RECEIVED	In Tolerance	INSTRUMENT	SERIAL NUMBER
CONDITION RETURNED	In Tolerance	FVI-010D	ZS42E02300085
CALIBRATED BY	Andrew Gallman	FVI-021	4374901
REVIEWED/ISSUED	D.P. 07/29/2025	TRACE NUMBER	NEXT CAL
CALIBRATION LOCATION	FVM	C0225-41759-690	08/31/2025
ENVIRONMENT	69.0°F, 31.0%RH, 28.92inHg	C0082-33618-741	05/31/2025
CALIBRATION DATE	05/14/2025		
RECALIBRATION DUE	05/14/2026		



CALIBRATION RESULTS

* DENOTES "OUT OF TOLERANCE"

FEATURE	NOMINAL	LOWER LIMIT	UPPER LIMIT	AS FOUND	AS LEFT	UNCERTAINTY
Temperature Type K	(°F)	(°F)	(°F)	(°F)	(°F)	(°F)
	32	22	42	29	29	6.0E-1
	100	90	110	98	98	6.0E-1
	250	240	260	248	248	6.0E-1
	500	490	510	497	497	6.0E-1
	750	744	756	747	747	6.0E-1
	1000	994	1006	998	998	6.0E-1
	1285	1275	1295	1283	1283	6.0E-1
AC Voltage	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)
	5.0	4.6	5.4	5.0	5.0	6.0E-2
	10.0	9.4	10.6	10.1	10.1	6.0E-2
	20.0	18.9	21.1	20.1	20.1	6.0E-2
	30.0	28.4	31.6	30.1	30.1	6.0E-2
	40.0	37.9	42.1	40.0	40.0	6.0E-2
Ohms	(Ohms)	(Ohms)	(Ohms)	(Ohms)	(Ohms)	(Ohms)
	5.0	4.6	5.4	5.0	5.0	6.0E-2
	10.0	9.4	10.6	10.1	10.1	6.0E-2
	20.0	18.9	21.1	20.1	20.1	6.0E-2
	30.0	28.4	31.6	30.1	30.1	6.0E-2
	40.0	37.9	42.1	40.1	40.1	6.0E-2

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.

Fox Valley Metrology

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Oshkosh, WI 54902

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<https://www.FoxValleyMetrology.com>

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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.