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TECHNOLOGY GROUP

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Fox Valley Metrology
30447 Stacy Ponds Drive
Stacy, MN 55079
(651) 424-0035 • Fax (920) 426-8120
https://www.FoxValleyMetrology.com

CERTIFICATE OF CALIBRATION

ANSI National Accreditation Board ACCREDITED ISO/IEC 17025 CALIBRATION AND DIMENSIONAL MEASUREMENT

Certificate No. ACT-1272

CERTIFICATION NUMBER	CP351-49175-792
FOR	Artisan Technology Group 101 Mercury Drive Champaign, IL 61822
TEST INSTRUMENT	Function Generator Waveform
MAKE	Racal Dana
MODEL	3151
CUSTOMER LOCATION	
CONDITION RECEIVED	Out Of Tolerance
CONDITION RETURNED	Out Of Tolerance
CALIBRATED BY	Matthew Novak
REVIEWED/ISSUED	K.C. 01/21/2026
CALIBRATION LOCATION	FVM
ENVIRONMENT	68.2°F, 19.8%RH, 28.84inHg
CALIBRATION DATE	12/17/2025
RECALIBRATION DUE	N/A

IDENTIFICATION	9801872
SERIAL NUMBER	9801872
PURCHASE ORDER #	77898

PROCEDURES FOLLOWED

EL-016A rev. 1

STANDARDS USED

INSTRUMENT	SERIAL NUMBER	TRACE NUMBER	NEXT CAL
T-0921	16982240	CP131-47313-697	05/31/2026
T-0980	608981796	CP213-29935-514	07/31/2026
T-1047	2729A18199	CP008-45589-792	01/31/2026
TRF-006	MY45100437	CP007-36739-792	01/31/2026
TRF-033	3318A24750	CP276-34315-792	10/31/2026
TRF-054	MY40002357	CP156-40217-792	06/30/2026

CALIBRATION RESULTS

* DENOTES "OUT OF TOLERANCE"

FEATURE	NOMINAL	LOWER LIMIT	UPPER LIMIT	AS FOUND	AS LEFT	UNCERTAINTY
Frequency	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)	(Hz)
Amplitude	10.000	9.999	10.001	10.000	10.000	6.0E-4
	100.00	99.99	100.01	100.00	100.00	6.0E-3
	(kHz)	(kHz)	(kHz)	(kHz)	(kHz)	(kHz)
	1.0000	0.9999	1.0001	1.0000	1.0000	6.0E-5
	10.000	9.999	10.001	10.000	10.000	6.0E-4
	100.00	99.99	100.01	100.00	100.00	6.0E-3
	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)	(MHz)
	1.0000	0.9999	1.0001	1.0000	1.0000	6.0E-5
	10.000	9.999	10.001	10.000	10.000	6.0E-4
	50.000	49.995	50.005	49.999	49.999	6.0E-4
Amplitude						
Sine Wave	(V)	(V)	(V)	(V)	(V)	(V)
@ 1kHz						
15.0Vp-p	5.3015	5.2300	5.3730	5.3240	5.3240	6.0E-5
	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)
1.5V/p-p	530.15	523.00	537.30	532.60	532.60	6.0E-3
150mVp-p	53.015	52.300	53.730	53.150	53.150	6.0E-4
DC Offset	(V)	(V)	(V)	(V)	(V)	(V)
Setting						
5.0V	5.00	4.93	5.07	5.07	5.01	6.0E-3
	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)
50.0mV	50.0	49.3	50.7	58.9*	58.3*	6.0E-2
500mV	500	493	507	517*	507	6.0E-1
Squarewave						

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FEATURE	NOMINAL	LOWER LIMIT	UPPER LIMIT	AS FOUND	AS LEFT	UNCERTAINTY
Characteristics 10V/1.0MHz	(nS)	(nS)	(nS)	(nS) 4.278	(nS) 4.278	(nS)
Overshoot 1.0MHz	(%)	(%)	(%)	(%) 2.3	(%) 2.3	(%)
Sinewave Characteristics	(%)	(%)	(%)	(%)	(%)	(%)
100Hz				0.1	0.1	
1000Hz				0.05	0.05	
10000Hz				0.08	0.08	
Sine Flatness	(div.)	(div.)	(div.)	(div.)	(div.)	(div.)
6V/1kHz Ref.	ck	ck	ck	Pass	Pass	
6V/1MHz	6.0	5.9	6.1	6.0	6.0	6.0E-2
6V/10MHz	6.0	5.7	6.3	6.0	6.0	6.0E-2
Trigger Sinewave/1MHz	(ck)	(ck)	(ck)	(ck)	(ck)	(ck)
Gate Sinewave1kHz	(ck)	(ck)	(ck)	Pass (ck)	Pass (ck)	(ck)
Burst Sinewave1kHz	(ck)	(ck)	(ck)	Pass (ck)	Pass (ck)	(ck)
				Pass	Pass	

REPAIR NOTES

Adjusted DC offset per manufacturer's instruction. Unable to bring into tolerance across full offset range.

■ 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.

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