Certificate of Calibration



Trident Systems Engineering 2646 Palma Dr. Ste. 130 Ventura, Ca. 93003 805 - 830 - 8596

Certificate 2190091

Your Company Name

Your Address

Your City State Zip

Manufacturer

Model

Description

Digital Multimeter

Fluke

73 III

Serial Number

Serial Number

Asset Number

Your Asset Number

Based on a Recommended/ agreed on Cal interval of 12 Months

Test Date of Calibration 16 Jan 2019

The Recall Date is 16 Jan 2020

PO Number Your PO Number

In Laboratory Cal Location

Procedure 33K8-4-14-1-122015

Technician 10

Quality Assurance

Temperature 22 °C

Humidity:

45 %

Received Condition

Pass - The measured values of the equipment were observed in specification at the points tested. Additionally, the expanded measurement uncertainty intervals about the measured values were completely in specification with a PFA of < 0.15%

Returned Condition

As Received

Cleaned and Calibrated to Manufacturer's Specifications in accordance with the procedure listed above

See Attached Data

This Calibration is in Compliance with ISO/IEC 17025, ANSI/NCSL Z540-3 and MIL Std. 45662

This Calibration is tracable to NIST, and supporting documentation relative

to traceability is on file and available for examination upon request

This Certificate shall not be reproduced, except in full, without written approval by TSE

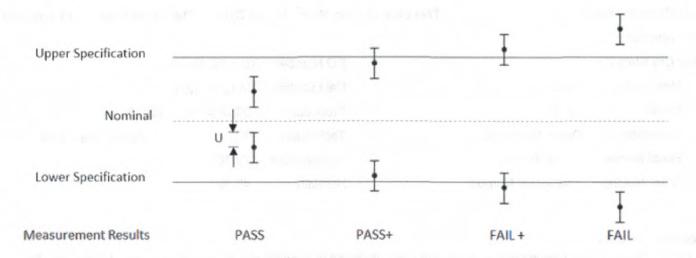
Document Print Date 10 Oct 2019

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Lab/Operations Manager

Measurement results are reported as:

- Pass -The measured values of the equipment were observed in specification at the points tested. Additionally, the expanded measurement uncertainty intervals about the measured values were in specification.
- Pass + -The measured values of the equipment were observed in specification at the points tested. Additionally, the
 expanded measurement uncertainty intervals about the measured values could have been out of specification with a PFA of
 <6.0%
- Fail + The measured values of the equipment were observed out of specification at the points tested. Additionally, the expanded measurement uncertainty intervals about the measured values could have been in specification with a PFR of <10.0%
- Fail —One or more measured values of the equipment were observed out of specification at the points tested. Additionally, the expanded measurement uncertainty intervals about one or more measured values were entirely outside the specification



TUR ≥ 1.5 : 1

Zero Guardbanding Employed

Pass < 0.15 % Probability of False Accept (PFA)

Pass + < 6.0 % Probability of False Accept (PFA)

Fail + < 10.0 % Probability of False Reject (PFR)

Fail < 0.15 % Probability of False Reject (PFR)

Standards used in this Calibration

Asset Number	Model Number	Description	Recall Date	Trace Number
TR204	4808	Multifunction Calibrator	10 Dec 2019	1002212237
TR112	5500A	Multi-Product Calibrator	29 Dec 2019	2183022

Manufacturer Model NO.

Certificate Number

2190091

DATE 19 Jan, 2019 Tech: 10

2646 Palma Dr. #130 Ventura, Ca. 93003 Website TSECAL.com Phone 805-830-8596

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TRIDENT SYSTEM & ENGINEERING

Customer Your Company Name TEMP. °C 22 45 R.H. %

Procedure 33K8-4-14-1-122015

Post Adjustment and /or Repair

As Received

Description Digital Multimeter

Fluke

73 III

Serial NO. Serial Number Your Asset Number Asset NO.

VERIFICATION TEST PERFORMED:

TEST Nominal		Minimum	Measured Reading	Maximum	Manufacturer Specification	EMU ±	Acceptance						
4.1.DGW-1G-1	PASS/ FA												
4.1 DC Volts Cal	300	mV	299.0	300.0	301.0	1.0	1.0E-01	PASS					
	3	V	2.990	3.001	3.010	0.010	1.0E-01	PASS					
	10	V	9.96	10.00		0.04	1.0E-03						
	-10	V	-10.04	-10.00	-9.96	0.04	1.0E-02	PASS PASS					
	20	V	19.93	20.01	20.07	0.07	1.0E-02	PASS					
	-20	V	-20.07	-20.01	-19.93	0.07	1.0E-02	PASS					
	30	V	29.90	30.01	30.10	0.10	1.0E-02	PASS					
	-30	V	-30.10	-30.01	-29.90	0.10	1.0E-02	PASS					
	300	V	299.0	300.1	301.0	1.0	1.0E-02	PASS					
	550	V	547	550	553	3	1.0E+00	PASS					
4.2 AC Volts Cal		· ·	347	330	333		1.02.00	IASS					
45 Hz	3	V	2.938	2.996	3.062	0.062	3.0E-03	PASS					
500 Hz	3	V	2.938	2.986	3.062	0.062	3.0E-03	PASS					
45 Hz	30	V	29.38	29.97	30.62	0.62	3.0E-02	PASS					
1 kHz	30	V	29.38	29.97	30.62	0.62	3.0E-02	PASS					
45 Hz	300	V	293.8	299.6	306.2	6.2	3.0E-01	PASS					
1 kHz	300	V	293.8	299.7	306.2	6.2	3.0E-01	PASS					
45 Hz	550	V	537	549	563	13	1.0E+00	PASS					
1 kHz	550	V	537	549	563	13	1.0E+00	PASS					
4.3 DC Current C		· · · · · · · · · · · · · · · · · · ·	227		1 303	10		11100					
	30	mA	29.53	30.09	30.47	0.47	1.0E-02	PASS					
	300	mA	293.8	301.5	306.2	6.2	1.0E-01	PASS					
	9.5	A	9.34	9.47	9.66	0.16	1.0E-02	PASS					
4.4 AC Current C								1					
45 Hz	30	mA	29.23	30.07	30.77	0.77	6.0E-02	PASS					
1 kHz	30	mA	29.23	30.09	30.77	0.77	6.0E-02	PASS					
45 Hz	300	mA	292.30	301.0	307.70	7.70	6.0E-01	PASS					
1 kHz	300	mA	292.30	301.3	307.70	7.70	6.0E-01	PASS					
45 Hz	9.5	A	9.25	9.46	9.75	0.25	2.0E-02	PASS					
1 kHz	9.5	A	9.25	9.48	9.75	0.25	2.0E-02	PASS					
1.5 Resistance C						1							
	190	Ω	188.8	190.0	191.2	1.2	4.0E-01	PASS					
	1900	Ω	1889	1900	1911	11	4.0E+00	PASS					
	19	kΩ	18.89	19.00	19.11	0.11	4.0E-02	PASS					
	190	kΩ	188.9	190.0	191.1	1.1	4.0E-01	PASS					
	1.9	ΜΩ	1.889	1.900	1.911	0.011	4.0E-03	PASS					
	19	ΜΩ	18.61	19.02	19.39	0.39	6.0E-02	PASS					