

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

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1995	to Quality & Service	2019
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Certificate Based on a Recommended/ agreed on Cal interval of 12 Months 2190091 Your Company Name Test Date of Calibration 16 Jan 2019 The Recall Date is 16 Jan 2020 Your Address Your City State Zip PO Number Your PO Number Manufacturer Fluke Cal Location In Laboratory 73 III Model Procedure 33K8-4-14-1-122015 Description **Digital Multimeter** Technician 10 **Quality Assurance** 22 °C Serial Number Serial Number Temperature Asset Number Your Asset Number 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 could have been out of specification with a PFA of <6.0%

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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

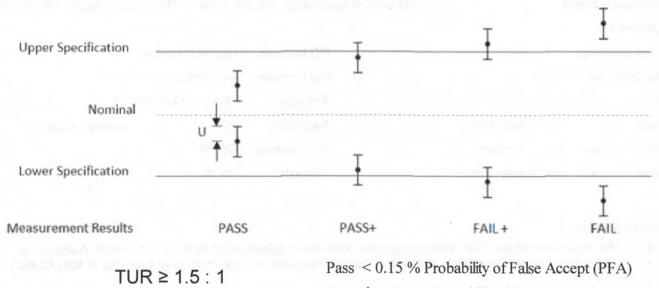


Measurement results are reported as:

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



Zero Guardbanding Employed

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

TS	E	Certificate Number	2190091	DATE	19 Jan, 2019	2646 Palma Dr. #130 Ventura, Ca. 93003
				Tech:	10	Website TSECAL.com
TRIDENT SY	STEM & ENGINEERING					Phone 805-830-8596
		Customer	Your Company Name	TEMP. °C	22	Fax 805-642-2259
				R.H. %	45	
Manufacturer	Fluke	Procedur	e 33K8-4-14-1-122015			
Model NO.	73 III			As Received	X	
Description	Digital Multimeter		Po	st Adjustment and /or Repair		
Serial NO.	Serial Number					
Asset NO.	Your Asset Number		1. I.			

VERIFICATION TEST PERFORMED:

TEST	Nominal		Minimum	Measured	Maximum	Manufacturer	EMU	Acceptance
				Reading		Specification	±	Criteria
4.1 DC Volts Calibration PASS/ FAIL								
	300	mV	299.0	299.0	301.0	1.0	1.0E-01	PASS
	3	v	2.990	3.010	3.010	0.010	1.0E-03	PASS
	10	V	9.96	9.96	10.04	0.04	1.0E-02	PASS
	-10	v	-10.04	-9.96	-9.96	0.04	1.0E-02	PASS
	20	v	19.93	19.93	20.07	0.07	1.0E-02	PASS
	-20	v	-20.07	-19.93	-19.93	0.07	1.0E-02	PASS
	30	v	29.90	30.10	30.10	0.10	1.0E-02	PASS
	-30	v	-30.10	-30.10	-29.90	0.10	1.0E-02	PASS
	300	v	299.0	299.0	301.0	1.0	1.0E-01	PASS
	550	v	547	553	553	3	1.0E+00	PASS
4.2 AC Volts Cal	libration							
45 Hz	3	v	2.938	2.938	3.062	0.062	3.0E-03	PASS
500 Hz	3	v	2.938	3.062	3.062	0.062	3.0E-03	PASS
45 Hz	30	v	29.38	29.38	30.62	0.62	3.0E-02	PASS
1 kHz	30	V	29.38	30.62	30.62	0.62	3.0E-02	PASS
45 Hz	300	V	293.8	293.8	306.2	6.2	3.0E-01	PASS
1 kHz	300	v	293.8	306.2	306.2	6.2	3.0E-01	PASS
45 Hz	550	v	537	537	563	13	1.0E+00	PASS
1 kHz	550	v	537	563	563	13	1.0E+00	PASS
4.3 DC Current (Calibration							
	30	mA	29.53	29.53	30.47	0.47	1.0E-02	PASS
	300	mA	293.8	306.2	306.2	6.2	1.0E-01	PASS
	9.5	А	9.34	9.34	9.66	0.16	1.0E-02	PASS
4.4 AC Current C	Calibration							
45 Hz	30	mA	29.23	30.77	30.77	0.77	6.0E-02	PASS
1 kHz	30	mA	29.23	29.23	30.77	0.77	6.0E-02	PASS
45 Hz	300	mA	292.30	307.7	307.70	7.70	6.0E-01	PASS
1 kHz	300	mA	292.30	292.3	307.70	7.70	6.0E-01	PASS
45 Hz	9.5	А	9.25	9.25	9.75	0.25	2.0E-02	PASS
1 kHz	9.5	A	9.25	9.75	9.75	0.25	2.0E-02	PASS
4.5 Resistance C	alibration							
	190	Ω	188.8	188.8	191.2	1.2	4.0E-01	PASS
	1900	Ω	1889	1911	1911	11	4.0E+00	PASS
	19	kΩ	18.89	18.89	19.11	0.11	4.0E-02	PASS
	190	kΩ	188.9	191.1	191.1	1.1	4.0E-01	PASS
	1.9	MΩ	1.889	1.889	1.911	0.011	4.0E-03	PASS
	19	MΩ	18.61	19.39	19.39	0.39	6.0E-02	PASS

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