





Test Date of Calibration 16 Jan 2019

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 Fluke

Model 73 III

Description Digital Multimeter

Serial Number

Serial Number

Asset Number Your Asset Number

PO Number Your PO Number

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

Cal Location In Laboratory

Procedure 33K8-4-14-1-122015

Technician 10

Quality Assurance

Temperature 22 °C

Humidity: 45 %

1

The Recall Date is 16 Jan 2020

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%

Returned Condition

As Received

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

See Attached Data

This certifies that the above listed product has been calibrated with a quality system accredited to ISO / IEC 17025 : 2017

This Calibrations report is composed of a certificate of calibration, performance test results and/or certificate appendice

Each Report section may be numbered separately. Estimated Measurement Uncertainty is shown on the calibration Report

Traceability is through NIST or another National Metrology Institute to the International System of Units (SI units).

Some measurements are traceable to natural physical constants, Consensus standards or ratio type measurements

supporting documentation relative to traceability is on file and available for examination upon request

Although fully traceable measurements marked with an asterisk(*) are outside our Scope of Accreditation

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

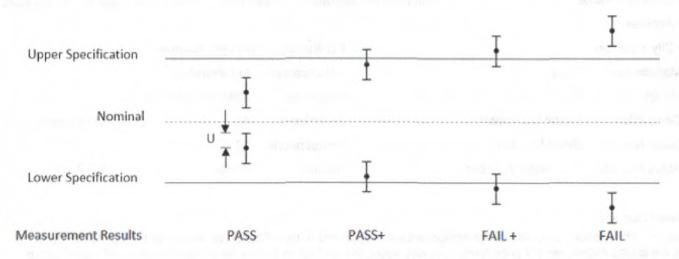
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ab/Operations Manager

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

Asset NO.

Certificate Number

2190091

DATE 19 Jan, 2019 Tech: 10

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

Fax 805-642-2259

TRIDENT SYSTEM & ENGINEERING

Your Company Name Customer

Procedure 33K8-4-14-1-122015

TEMP. °C

22 R.H. % 45

Manufacturer Fluke 73 III Model NO.

Description Digital Multimeter Serial NO.

Your Asset Number

Serial Number

X As Received

Post Adjustment and /or Repair

VERIFICATION TEST PERFORMED:

TEST	Nomina	Nominal		Measured Reading	Maximum	Manufacturer Specification	EMU ±	Acceptance Criteria
1.1 DC Volts Cal	ibration							PASS/ FAII
	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	ibration							
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 C	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	A	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	A	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 Ca	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	ΜΩ	1.889	1.889	1.911	0.011	4.0E-03	PASS
	19	ΜΩ	18.61	19.39	19.39	0.39	6.0E-02	PASS

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