

Certificate of Calibration

Beaverton Service Center

Certificate Number: 76618

Data Type: As-Found
Result Summary: Operational Failure

Calibration Date: 17-Oct-2014

Manufacturer: Fluke
Model: 70 III
Serial Number: 75230619
Description: Multimeter

Certificate Date: 17-Oct-2014
Temperature: 22.9 °C
Humidity: 55.7 %

Procedure: Fluke 70-3: (1 year) CAL VER /5520A

Revision: 1.2

Customer: STATE OF WASHINGTON
City: SEATTLE
State: WA
Purchase Order: CCS WSP

Country: US

RMA: 30639913

This calibration is traceable to the International System of Units (SI), through National Metrology Institutes (NIST, PTB, NRC, NPL, etc.), radiometric techniques, or natural physical constants. This certificate applies only to the item identified and shall not be reproduced other than in full, without the specific written approval by Fluke Corporation. Calibration certificates without signature are not valid. The calibration has been completed in accordance with Fluke Electronics Corporation Quality System Document 111.0, Fluke 17025 Quality Manual QSD 111.41 and/or Fluke Customer Support Services QAM 400.

The Data Type found in this certificate must be interpreted as:

- As - Found Calibration data collected before the unit is adjusted and / or repaired.
- As - Left Calibration data collected after the unit has been adjusted and / or repaired.
- Found-Left Calibration data collected without any adjustment and / or repair performed.

This calibration conforms to the requirements of ANSI/NCCL Z540-1-1994 (R2002).

In the attached measurement results, deviation may be expressed with units, Measured Value (MV) - Nominal Value (NV) or as a proportion of the nominal value ((MV-NV)/NV), expressed without units with a scalar multiplier such as % (0.01), or as a ratio of the units (mA/A, μ V/V, etc.) Descriptions such as μ A/A, μ V/V, and others, where used to annotate results or column headings are the preferred replacements for what was historically labeled as "ppm" or parts-per-million and described the results in that column, unless otherwise noted by units symbols.

Where applicable, the expanded uncertainty of measurement at the time of test is given in the following pages. They are calculated in accordance with the method described in the ISO Guide to the Expression of Uncertainty in Measurement (GUM). The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k, such that the confidence level approximates 95%.

Where applicable, the Test Uncertainty Ratio (TUR) is provided in the following pages. Unless otherwise stated, the TUR for a given measurement result is 4:1 or greater.

Results are reviewed to establish where any measurement results exceeded the manufacturer's specifications.

Measurement results greater than limits of error are indicated by "I".

Comments:

UNREAD ABLE DISPLAY.



NgHia Duong
 NGHIA DUONG
 Issued By

Certificate Number:

Date of Calibration:

Standards Used

Asset

Description

Cal-Date

Cal-Due

Certificate Number: 76618

Date of Calibration: 17-Oct-2014

Calibration Data

| Parameter | Nominal Value | Measurement Result | Limits of Error | | Test Uncertainty Ratio (TUR) |
|---|---------------|--------------------|-----------------|-------------|------------------------------|
| | | | Lower Limit | Upper Limit | |
| DISPLAY TEST | | | | | |
| Display Segments Illuminated Correctly: | | Fail | | | ! |