

Manual Supplement

Manual Title: 2638A Users
Print Date: June 2013
Revision/Date:

Supplement Issue: **3**
Issue Date: 9/14
Page Count: 3

This supplement contains information necessary to ensure the accuracy of the above manual.
This manual is distributed as an electronic manual on the following CD-ROM:

CD Title: 2638A
CD Rev. & Date: 7/2013
CD PN: 4107865

FLUKE®

Calibration

Change #1, 66727, 66812, 66914

On page 1-13, replace **Input Protection** and add:

Safety Protection

- Mains Input IEC 61010-1, Overvoltage Category II, Pollution Degree 2
- Front Panel 300 V CAT II
- Rear Panel 150 V CAT II, 250 V rms with maximum transient voltage of 1000 V peak.
 These terminals are not intended for connection to mains voltage above 150 V without external transient suppression. The maximum input that can be applied between rear-module terminals or between any rear-module terminal and earth ground is 250 V dc or ac rms.

Electromagnetic Environment IEC 61326-1: Basic (Controlled EM for full specification)

Radio Frequency Emissions IEC CISPR 11: Group 1, Class A. (Group 1 has intentionally generated and/or uses conductively coupled radio-frequency energy which is necessary for the internal functioning of the equipment itself. Class A equipment is suitable for use in non-domestic locations and/or directly connected to a low-voltage power supply network.)

On page 1-15, add the following Notes to *DC Voltage Accuracy*:

Notes:

- For conducted disturbances on mains input >1 V from 10 MHz to 20 MHz, add 0.02 % of range. For disturbances >3 V, accuracy is unspecified.
- For radiated disturbances >1V/m from 450 MHz to 550 MHz, add 0.02 % of range. For disturbances > 3 V/m, accuracy is unspecified.

On page 1-16, add the following Note to *AC Voltage Accuracy*:

Note:
 For conducted disturbances on mains input >1 V from 10 MHz to 40 MHz, add 0.02 % of range. For disturbances >3 V, accuracy is unspecified.

On page 1-19, add the following Note to *Resistance Accuracy*:

Note:
 For conducted disturbances on mains input >1 V from 10 MHz to 40 MHz, add 0.6 % of range. For disturbances >3 V, accuracy is unspecified.

On page 1-20, add the following Note to *RTD Temperature Accuracy*:

Note:
 For conducted disturbances on mains input >1 V from 10 MHz to 40 MHz, add 0.2 Celsius. For disturbances >3 V, accuracy is unspecified.

On page 1-21, add the following Note to *Thermistor Temperature Accuracy*:

Note:
 For conducted disturbances on mains input >1 V from 10 MHz to 40 MHz, add 0.2 Celsius. For disturbances >3 V, accuracy is unspecified.

On page 2-3 Table 2-1, replace the 220 V and the 240 V entries with:

220 V	160 mA, 250 V (slow blow)	4394437
240 V	160 mA, 250 V (slow blow)	4394437

On page 4-8, replace the first sentence in the second bullet with:


- The **External** trigger type set the scan to start when a set TRIG input on the Digital I/O port detects a low condition

On page 6-3 Table 6-1, replace the 220 V and the 240 V entries with:


220 V	160 mA, 250 V (slow blow)	4394437
240 V	160 mA, 250 V (slow blow)	4394437

On page 6-5, change:

From:

166488 	Fuse 0.125A, 250V (slow blow) ^[2]	1
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To:

4394437 	Fuse 0.160 mA, 250V (slow blow) ^[2]	1
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Change #2, 40

On page 6-5, add the following section prior to ***Users-Replaceable Parts and Accessories:***

Updating Firmware

For Products with a firmware version 1.03 or higher, firmware may be updated by the product administrator using the front-panel USB port. New firmware versions may be located and downloaded from the Fluke Calibration web page for the Product under the Knowledge and Information tab. For Products that have firmware versions below 1.03, please contact Fluke Calibration Service to schedule a firmware update as these versions do not support the USB firmware update process.

Update instructions for Products currently using version 1.03 and above:

Caution

- **Do not cycle the power or remove the USB device while the firmware update is in process. These actions will cause an instrument failure during the update process and require a return to a Fluke Service center to correct.**
- **The instrument will automatically re-boot when the update process is complete. Updates can take several minutes to complete and the display screen will not be illuminated until the re-boot occurs.**

Note

Fluke Calibration recommends that you move all internal data files and setup files from the Product to a USB device prior to updating the Product firmware.

Before the update process is started, verify that the current firmware is version 1.03 or above by viewing "Firmware" under the [Instrument SETUP] key. If your firmware version is below 1.03, do not continue the update process. You must return the Product to Fluke Calibration Service for updating.

Firmware update steps:

1. Download and extract the firmware update files (AuxInfo.txt and mtv.flt) to your computer from the Fluke Calibration website
2. Create a new folder "firmware" on a USB flash drive (1 GB or greater), which is being used to update the product, and then copy these files into this folder. To prevent corrupting these files, use the Windows utility to safely eject your USB flash drive from your computer.
3. Plug the USB flash drive into the Product and wait for the red light on the USB port to illuminate and show that the drive is recognized.

Note

Some USB flash drives may not be recognized by the Product. Test the USB flash drive you intend to use prior to starting this update process to ensure it is recognized.

4. Press [Instrument SETUP] to enter the Setup menu.
5. Press the Up/Down arrow button to select "Firmware" then press "F3" to enter the firmware menu.
6. Press "F1" and enter the administrator password and then press "F3" to start the update process.
7. WAIT until the Product automatically re-boots. There will be no screen display for several minutes during this time. Do not cycle the power or remove the USB device while the firmware update is in process.
8. After the automatic re-boot, press [Instrument SETUP] to verify that the update was successful. Verify the firmware version that you have installed is displayed on the screen.

On page 6-5, Table 6-3 change:

From:

2675487	884X-ETH Ethernet Interface Cable, 1 Meter	1
4308745	Protective Slot Cover	1

To:

4396147	884X-ETH Ethernet Interface Cable, 1 Meter	1
4374731	Protective Slot Cover	1