



GOVERNMENT - INDUSTRY DATA EXCHANGE PROGRAM

# SAFE-ALERT

1. TITLE (Class, Function, Type, etc.) Fluke Digital Multimeter Safety Notice		2. DOCUMENT NUMBER EKU-S-22-01	
		3. DATE (DD-MMM-YY) 18-MAR-22	
4. MANUFACTURER AND ADDRESS Fluke Corporation 6920 Seaway Blvd Everett, WA 98203	5. PART NUMBER 83V, 87V, and 88V	6. NATIONAL STOCK NUMBER See Database	
	7. SPECIFICATION Not Available	8. GOVERNMENT PART NUMBER Not Available	
	9. LOT DATE CODE START 07-Jun-2019	10. LOT DATE CODE END 26-Aug-2021	
11. MANUFACTURER'S POINT OF CONTACT www.fluke.com	12. CAGE 89536	13. MANUFACTURER'S FAX (425) 446-5778	
14. MFR. POC PHONE (800) 87-FLUKE	15. MANUFACTURER'S E-MAIL <a href="https://www.fluke.com/en-us/support/safety-notice/8x-v-safety-notice">https://www.fluke.com/en-us/support/safety-notice/8x-v-safety-notice</a>		
16. SUPPLIER Not Applicable	17. SUPPLIER ADDRESS Not Applicable	18. SUPPLIER CAGE Not Applicable	
19. PROBLEM DESCRIPTION / DISCUSSION / EFFECT <p>In February 2022, the Lawrence Livermore National Laboratory (LLNL) Electrical Safety Officer (ESO) received information from a counterpart at another Department of Energy site regarding a <a href="#">safety notice issued by Fluke</a> for their 8x V series Digital Multimeters (DMMs). The LLNL ESO forwarded the information to members of the Electrical Safety Board and the Electrical Safety Committee. A search of LLNL procurements was conducted and affected custodians were also notified.</p> <p>A LLNL Product Safety Alert (see following pages of this report) was issued lab-wide with instructions on how to identify Fluke DMMs with the potential issue (model number, affected serial numbers and manufacturing dates), test procedure (if serial number could not be located), and recommended actions for when affected DMMs were found.</p> <p><i>This document has been issued concurrent with manufacturer notification.</i></p>			
20. ACTION TAKEN/PLANNED To date (3/9/2022), a total of 26 affected Fluke DMMs have been located at LLNL. Custodians of the DMMs are following the Fluke process for getting the DMMs repaired.			
21. DATE MFR. NOTIFIED/ SUPPLIER NOTIFIED  17-MAR-22	22. MFR./SUPPLIER RESPONSE  <input type="checkbox"/> REPLY ATTACHED <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> NO REPLY	23. ORIGINATOR ADDRESS/POINT OF CONTACT Tammie Graham, Lawrence Livermore National Laboratory 7000 East Avenue, L-295 Livermore CA 94550 <a href="mailto:Grahammcguir1@llnl.gov">Grahammcguir1@llnl.gov</a> (925) 422-1540	
24. GIDEP REPRESENTATIVE Tammie Graham	25. SIGNATURE Signature on File	26. DATE 18-MAR-22	

Management Assurance System

# Lessons Learned



## Product Safety Alert

### Fluke Digital Multi-meter Safety Notice

*Although not identified as a recall, LLNL’s response will adhere to the following: Federal law bars any person from selling products subject to a publicly announced voluntary recall by a manufacturer or a mandatory recall ordered by the Consumer Products Safety Commission.*

**Nine affected Fluke 8x V series DMMs have been found at LLNL since the Fluke Safety Notice was received 01/31/2022.**

Fluke Corporation identified a potential safety issue affecting certain Fluke 83V, 87V and 88V Digital Multimeters (Fluke 8x V series DMM). If using the Fluke 8x V series DMM for the purpose of confirming the absence of voltage, the display may show a non-hazardous voltage reading when hazardous voltage is present, thereby creating a potential safety risk. The safety notice is available at <https://www.fluke.com/en-us/support/safety-notices/8x-v-safety-notice>.

The following Fluke 8x V series DMM may have this condition.

Model Name	Manufacturing Dates	Starting Serial Number	Ending Serial Number
FLUKE 83V FLUKE 87V FLUKE 88V	June 7, 2019 – August 26, 2021 inclusive for all models	46280001 for all models	55370001 for all models

#### Determining whether your FLUKE DMM is affected:

1. Check the serial number and compare it to the information in the table. If the serial number is in the range of serial numbers in the table above, remove the DMM from service and follow the FLUKE Safety Notice instructions to arrange repair.



2. If you cannot locate or read the serial number with certainty, complete the following test to determine whether your product is affected (<https://www.fluke.com/en-us/support/safety-notices/8x-v-safety-notice>) provides a video demonstrating how to complete this test).

<p>A. Set the meter to Ohms Ω.</p>	
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<p>B. Using the red test lead as a stop to prevent full insertion of the black test lead, install the black test lead into the COM jack as shown. This aligns the contact of the test lead plug with the source of potentially intruding plastic to ensure effective detection.</p>	
<p>C. While leaving the black test lead elevated, fully insert the red test lead.</p>	
<p>D. Securely short the clean probe tips of the test leads together to maintain continuity throughout the test. <b>They must maintain contact throughout this test.</b></p>	
<p>E. Grasp the black test lead plug by the wire and slowly <b>rotate the test lead plug in the COM jack fully in both directions, without pushing it into the jack.</b> Observe the reading on the display as you rotate the black test lead plug.</p>	
<p><b>Meter performing properly</b> Meter continuously reads below 0.5 Ohms. No further action is needed.</p> 	<p><b>Meter needs repair</b> Meter displays OL (in ohms) or above 0.5 ohms. Remove from service and follow the FLUKE Safety Notice instructions to arrange repair.</p> 

## Please post – approved for unlimited distribution at and outside LLNL

LL-2022-LLNL-3

LLNL-POST-831438

February 2, 2022

### Recommended Action

**Check all Fluke 83V, 87V and 88V DMMs per the instructions provided above.**

**If the serial number is 46280001 through 55370001 inclusive, or the serial number cannot be read, and the test identifies the DMM as one needing repair:**

- Remove the DMM from service (be sure it is properly marked/tagged).
- Follow the FLUKE Safety Notice instructions at <https://www.fluke.com/en-us/support/safety-notices/8x-v-safety-notice> to arrange repair (this action will be the responsibility of the owning organization).
- Report the result to Jeff Horning ([horning1@llnl.gov](mailto:horning1@llnl.gov)) and Rich Green ([green7@llnl.gov](mailto:green7@llnl.gov)) in an email with the subject line *Fluke 8x V series DMM Removed from Service*. In the email, provide the model number, the serial number (if readable), your disposition decision, a point of contact (e.g., the owner/user) and the name of the owning organization.

If the serial number is outside 46280001 through 55370001 inclusive, the DMM can remain in service at LLNL. Any testing is at the owner's discretion. If the test identifies the DMM as one needing repair, follow the instructions in the three bullets immediately above.

### Where to Get Help or More Information

- FLUKE Safety Notice at <https://www.fluke.com/en-us/support/safety-notices/8x-v-safety-notice>.
- Your supervisor.
- Rich Green, LLNL Electrical Safety Officer, [green7@llnl.gov](mailto:green7@llnl.gov), 925-422-5359 (office), 925-961-7725 (cell).
- To search for other LLNL Lessons Learned, go to the "Lessons Learned" web site ([https://mas.llnl.gov/lessons\\_learned/](https://mas.llnl.gov/lessons_learned/)), select the topic of interest or click on "Search" and enter a keyword.