

PRV240FS Proving Unit

Instruction Sheet

Introduction

The PRV240FS Proving Unit (the Product) is an electronic voltage source. This Product provides a safe and easy method to verify proper operation of the T6-600/T6-1000 Electrical Tester with FieldSense technology or other test tools. Use it to verify either an energized source or a denergized source. Also use it in cases where no known voltage source is available to verify a test tool.

The Product does not require personal protective equipment (PPE) unless your environment requires minimal PPE such as a hard hat, safety glasses, or ear plugs.

How to Contact Fluke

To contact Fluke, call one of the following telephone numbers:

- Technical Support USA: 1-800-44-FLUKE (1-800-443-5853)
- Calibration/Repair USA: 1-888-99-FLUKE (1-888-993-5853)
- Canada: 1-800-36-FLUKE (1-800-363-5853)
- Europe: +31 402-675-200
- Japan: +81-3-6714-3114
- China: +86-400-921-0835
- Singapore: +65-6799-5566
- Anywhere in the world: +1-425-446-5500

Or, visit Fluke's website at www.fluke.com.

To register your product, visit http://register.fluke.com.

To view, print, or download the latest manual supplement, visit

http://us.fluke.com/usen/support/manuals

Safetv

A **Warning** identifies conditions and procedures that are dangerous to the user.

∧ M Warning

To prevent possible electrical shock, fire, or personal injury:

- Read all safety information before you use the Product.
- Carefully read all instructions.
- Do not alter the Product and use only as specified, or the protection supplied by the Product can be compromised.
- Do not touch voltages >30 V ac rms,
 42 V ac peak, or 60 V dc.
- Do not use the Product around explosive gas, vapor, or in damp or wet environments.

PN 4919689 September 2017
© 2017 Fluke Corporation. All rights reserved.

- Do not use the Product if it operates incorrectly.
- Examine the case before you use the Product. Look for cracks or missing plastic. Carefully look at the insulation around the terminals.
- Do not use the Product if it is altered or damaged.
- Remove the batteries if the Product is not used for an extended period of time, or if stored in temperatures above 50 °C.
 If the batteries are not removed, battery leakage can damage the Product.
- You must close and lock the battery door before you operate the Product.

Symbols

Symbols used in the instructions or on the Product are shown in Table 1.

Table 1. Symbols

Table 1. Syllibols		
Symbol	Definition	
[]i	Consult user documentation.	
A	WARNING. HAZARDOUS VOLTAGE. Risk of electric shock.	
Δ	WARNING. RISK OF DANGER.	
4	Battery	
¥	FieldSense Measurement: Fluke voltage/current sensing technique.	
© o o o o o o o o o o o o o o o o o o o	Certified by CSA Group to North American safety standards.	
<u>&</u>	Conforms to relevant Australian EMC standards.	
CE	Conforms to European Union directives.	
C	Conforms to relevant South Korean EMC Standards.	
<u>X</u>	This product complies with the WEEE Directive marking requirements. The affixed label indicates that you must not discard this electrical/electronic product in domestic household waste. Product Category: With reference to the equipment types in the WEEE Directive Annex I, this product is classed as category 9 "Monitoring and Control Instrumentation" product. Do not dispose of this product as unsorted municipal waste.	

Operation

Table 2 is a list of the controls and interface of the Product. See Figure 1 for the location of each item.

Table 2. Product Overview

Description
Function selection
+ Terminal
AC/DC LED
– Terminal
Test Lead Ground Contact
Test Lead Ground Contact LED
Fork saddle
Finger Ground Contact LED
Finger Ground Contact

FieldSense Measurement without Test Lead

Before verification, set up the T6 for a FieldSense measurement without the test leads. See the *T6 Quick Reference Guide*.

To verify measurement:

- Move the switch to the FieldSense position. See Figure 3.
- Insert the T6 fork into position on the Product.
- 3. Push and hold the finger ground contact to activate the Product.

The Product LED turns green and the T6 display shows a 240 V measurement.

FieldSense Measurement with Ground Lead

Before verification, set up the T6 for a FieldSense measurement with the ground lead. See the *T6 Quick Reference Guide*.

To verify measurement:

- Move the switch to the FieldSense position. See Figure 4.
- 2. Insert the T6 fork into position on the Product.
- Place the black test lead from the test tool into the test lead ground contact terminal and press down firmly.

The Product LED turns green and the T6 display shows a 240 V measurement.

AC/DC Measurement

Before verification, set up the T6 or other test tool for ac/dc measurement with the test leads.

To verify measurement:

- Move the switch to the AC or DC position. See Figure 5.
- 2. Place the red test lead from the test tool into the (+) terminal and press down firmly.
- Place the black test lead from the test tool into the (-) terminal and press down firmly.
 The Product LED turns green and the T6 display shows a 240 V measurement.

Battery Replacement

Push the finger ground contact button to check the battery condition. The finger ground contact LED turns green to show good battery condition. If the LED does not turn on, replace the batteries.

∧ M Warning

To prevent possible electrical shock, fire, or personal injury:

- Do not operate the Product with covers removed or the case open. Hazardous voltage exposure is possible.
- Repair the Product before use if the battery leaks.
- Have an approved technician repair the Product.

To replace the batteries:

- Turn the battery-door latch until the unlock symbol aligns with the arrow. See Figure 2.
- Lift off the battery door.
- Insert or replace the four AA batteries. Use the correct battery orientation.
- Install the battery door.
- Turn the battery-door latch until the locked symbol aligns with the arrow.

Specifications

Output voltage

240 V ac rms or dc ±10 % ≥1 MΩ
LED power indicator Turns on when output voltage is
present
Battery4 x AA Alkaline batteries NEDA

Operating temperature10 °C to +50 °C
Operating humidity 0 % to 90 % (0 °C to 35 °C)
0 % to 70 % (35 °C to 55 °C)
Operating altitude 2000 m
Dimensions 11.7 cm x 7.4 cm x 4.5 cm
(4.6 in x 2.9 in x 1.75 in)
Weight 0.32 kg (12 oz) includes batteries
Safety
General IEC 61010-1, Pollution Degree 2
MeasurementIEC 61010-2-030 240 Vrms/240 Vdc
Florition of the Community (FMC)

Electromagnetic Compatibility (EMC)

International

.....IEC 61326-1: Controlled
Electromagnetic Environment
CISPR 11: Group 1, Class A

Group 1: Equipment has intentionally generated and/or uses conductively-coupled radio frequency energy that is necessary for the internal function of the equipment itself.

Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low-voltage power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances.

Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.

Emissions that exceed the levels required by CISPR 11 can occur when the equipment is connected to a test object.

Class A: Equipment meets requirements for industrial

LIMITED WARRANTY AND LIMITATION OF LIABILITY

This Fluke product will be free from defects in material and workmanship for one year from the date of purchase. This warranty does not cover fuses, disposable batteries, or damage from accident, neglect, misuse, alteration, contamination, or abnormal conditions of operation or handling. Resellers are not authorized to extend any other warranty on Fluke's behalf. To obtain service during the warranty period, contact your nearest Fluke authorized service center to obtain return authorization information, then send the product to that Service Center with a description of the problem.

THIS WARRANTY IS YOUR ONLY REMEDY. NO OTHER WARRANTIES, SUCH AS FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSED OR IMPLIED. FLUKE IS NOT LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, ARISING FROM ANY CAUSE OR THEORY. Since some states or countries do not allow the exclusion or limitation of an implied warranty or of incidental or consequential damages, this limitation of liability may not apply to you.

 Fluke Corporation
 Fluke Europe B.V.

 P.O. Box 9090
 P.O. Box 1186

 Everett, WA 98206-9090
 5602 BD Eindhoven

 U.S.A.
 The Netherlands

11/99

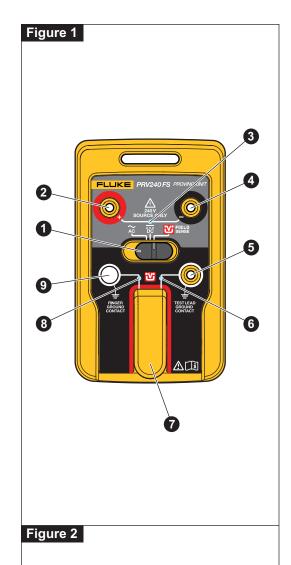
Fluke Corporation certifies this Product was tested and verified with applicable calibration procedures during the manufacturing process. Fluke's quality system controls these procedures.

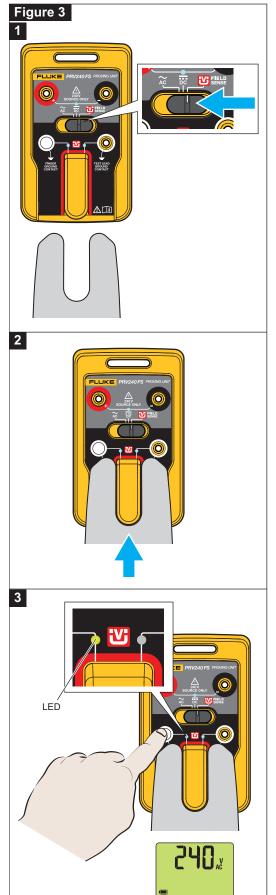
The instruments used during the testing and calibration of this Product are traceable to SI units through internationally recognized measurement standards.

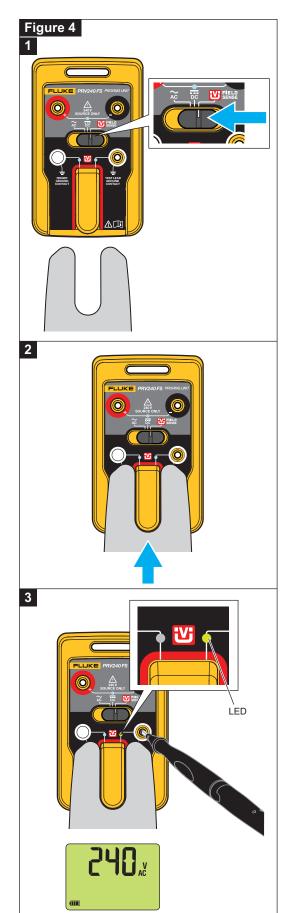
This document is not a certificate of calibration or traceability. To obtain a certificate of calibration contact the nearest Fluke service center to process an order to have your Product returned for calibration. A nominal fee is charged for calibration service.

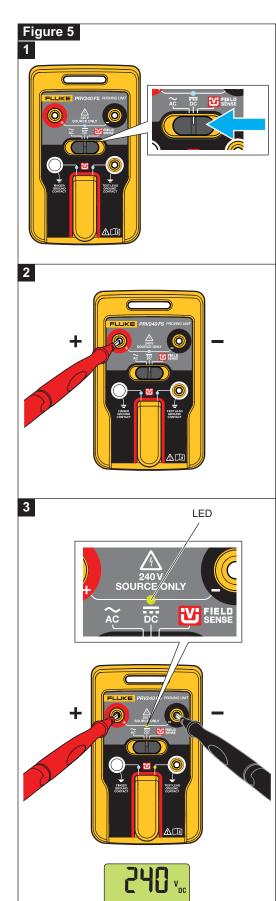
powerandcables.com











=1