

# PRV240

## Proving Unit

### Instruction Sheet

### Introduction

The PRV240 Proving Unit (the Product) provides a risk free and easy method to test the proper operation of your test tool. You can use it for absence of voltage tests or when live tests are required. Your environment may require minimal personal protection equipment such as hard hat, safety glasses, or ear plugs when using the Product. The Product improves safety, reduces arc flash exposure, and shock risk by 2X when you follow the three point test safety practice.

### 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
- Singapore: +65-6799-5566
- Anywhere in the world: +1-425-446-5500

Or, visit Fluke's website at [www.fluke.com](http://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>.

### Safety

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

#### ⚠️ Warning

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

- Read all safety information before you use the Product.
- Carefully read all instructions.
- Use the Product 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.
- 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 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.
- Replace the batteries when the low battery indicator shows to prevent incorrect measurements.

### Symbols

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

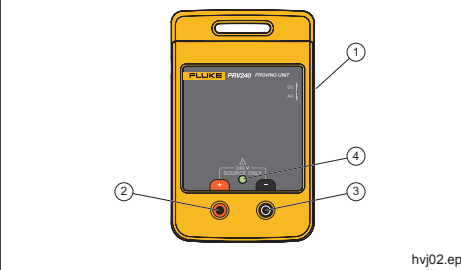
Table 1. Symbols

Symbol	Definition
	Risk of danger. Important information. See manual.
	Hazardous voltage.
	Battery
	Conforms to relevant North American Safety Standards.
	Conforms to relevant Australian EMC standards.
	Conforms to European Union directives.
	Conforms to relevant South Korean EMC Standards.
	This product complies with the WEEE Directive (2002/96/EC) 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. Go to Fluke's website for recycling information.

### Operation

Table 2 shows the locations for the controls and interface of the PRV240.

Table 2. Overview of PRV240



Item	Description
①	Voltage selection
②	+ Terminal
③	- Terminal
④	Power indicator

To operate:

1. Select the AC or DC function with the selection switch on the side of the unit.

2. Place the black probe of the unit under test into the (-) terminal and press down firmly.

Place the red probe of the unit under test into the (+) terminal until it makes contact with the terminal. The power indicator illuminates when the output voltage is available.

3. If the power indicator led does not illuminate, check the condition of the battery and replace if required.

### Battery Installation/Replacement

#### ⚠️ 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 install or replace the batteries:

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

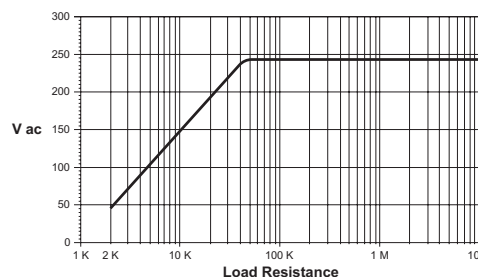


Figure 1.

### Specifications

#### Output voltage

240 V ac rms or dc..... ±10 % ≥1 MΩ  
LoZ >3 kΩ load ..... 60 V ac typical  
50 V ac rms minimum

Output loading ..... See Figure 1

LED power indicator..... Turns on when output voltage is present

Battery ..... 4 x AA Alkaline batteries NEDA 24 A IEC LR03

Battery life ..... 5000 (5-second duration) test cycles with >1 MΩ load, 300 tests minimum with >3 kΩ load

Operating temperature..... -10 °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 2.8 cm  
(4.6 in x 2.9 in x 1.1 in)

Weight..... 0.23 kg (8 oz) includes batteries

Safety..... IEC61010-1, IEC61010-2-030

#### Electromagnetic Compatibility (EMC)

IEC 61326-1 ..... Portable EM environment; CISPR 11, Group 1, Class A

Group 1 equipment: group 1 has intentionally generated and/or use conductively coupled radio-frequency energy which is necessary for the internal functioning of the equipment itself.

Class A equipment is equipment suitable for use in all establishments other than domestic and those directly connected to a low voltage power supply network which supplies buildings used for domestic purposes.

US (FCC)..... 47 CFR 15 subpart B, this product is considered an exempt device per clause 15.103

Korea (KCC)..... Class A Equipment (Industrial Broadcasting & Communication Equipment)

This product meets requirements for industrial (Class A) electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.

#### 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  
P.O. Box 9090  
Everett, WA 98206-9090  
U.S.A.

Fluke Europe B.V.  
P.O. Box 1186  
5602 BD Eindhoven  
The Netherlands

11/99