



MPU690

Proving Unit

User Guide

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For Patent information about this instrument refer to the following web site:

megger.com/patents

Declaration of Conformity

Hereby, Megger Instruments Limited declares that radio equipment manufactured by Megger Instruments Limited described in this user guide is in compliance with Directive 2014/53/EU. Other equipment manufactured by Megger Instruments Limited described in this user guide is in compliance with Directives 2014/30/EU and 2014/35/EU where they apply.

The full text of Megger Instruments EU declarations of conformity are available at:

megger.com/eu-dofc

1. Introduction

The MPU690 Proving Unit safely generates high voltages to energise 2 pole voltage testers thus allowing verification of their correct operation. The unit will also test voltage testers that use a pygmy lamp.

Features include automatic power on when voltage tester probes are inserted into the output terminals, 50 Hz test voltage to simulate AC mains supply and a magnetic back to the case.

2. Instructions

To activate the MPU690 firstly insert the voltage tester flying lead probe into the right hand terminal followed by the voltage tester fixed probe into the left hand terminal.

Gently apply and maintain pressure to the left hand probe to activate the internal power switch. The test voltage is transmitted to the voltage tester.

The test voltage LEDs will automatically ramp up to 690 volts and then slowly ramp back down 690 V - 400 V - 230 V - 100 V - 50 V - OFF (to re-test slightly lift the left-hand probe and re-apply the pressure).

The advantages of the auto test function are:

Individual voltages are applied at five key voltage test points with significant battery savings as power is automatically switched off when the test is completed.

Once the voltage tester has been proved to be correctly functioning you may carry out testing circuits. It is recommended that a voltage tester be verified regularly.

3. Safety Warnings

Safety Warnings – Risk of electric shock

Safety Warnings must be read and understood before instrument is used.

- As this unit generates voltages up to 690 volts caution should be exercised, hands should remain behind guards of applied voltage detectors.
- Never connect to installation wiring.
- Only voltage testers should be connected to the proving unit.
- Never insert wire, nails or screwdrivers into either terminal.
- Do not force objects into the left hand terminal to enable permanent operation.
- Ensure the unit is free from moisture, grease and dust; clean unit with a soft dry cloth only.
- Do not use if there is any damage to the MPU690.
- The battery cover must be in place whilst conducting tests.

NOTE : This instrument must only be used by suitably trained and competent persons.

3.1 Safety symbols on the instrument

	Caution: Risk of electric shock
	Refer to user instructions
	Equipment protected throughout by Double Insulation
	Equipment complies with current EU directives.
	Equipment complies with current UKCA directives
	Do not dispose of in landfill, sewage systems or by fire.

4. End of life disposal

4.1 WEEE



The crossed out wheeled bin placed on the Megger products is a reminder not to dispose of the product at the end of its product life with general waste.

Megger is registered in the UK as a Producer of Electrical and Electronic Equipment. The Registration number is WEE/HE0146QT

4.2 Batteries

Should the power light fail to illuminate then change the batteries. For the purpose of end of life disposal and battery replacement, removing the two screws on the base off the unit accesses the batteries.

The crossed out wheeled bin placed on the batteries is a reminder not to dispose of them with general waste at the end of their life.

This product contains 6 x AA / LR06 alkaline batteries. Do not use rechargeable batteries.

The batteries fitted in this instrument are classified as a Portable Batteries and should be disposed of in the UK in accordance with Local Authority requirements..

For disposal of batteries in other parts of the EU contact your local distributor.

Megger is registered in the UK as a producer of batteries. The registration number is BPRN12731.

5. Specification

Output Voltage:	50 – 690 volts in five steps
Power Supply:	6 x AA / LR06 alkaline batteries
Operating Conditions:	-10 °C to +40 °C, 70% RH
EN61010 pollution degree 2	
Number of tests:	Approximately 550

NOTE : A voltage tester that uses a pygmy lamp will reduce the number of tests available due to the drain on the batteries.

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This instrument is manufactured in China.

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