

PD690 PROVING UNIT

INSTRUCTION MANUAL

PD690 Mk2



MARTINDALE
● ● ● **ELECTRIC**
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GENERAL SAFETY INFORMATION: Always read before proceeding.

Warning

These instructions contain both information and warnings that are necessary for the safe operation and maintenance of this product. It is recommended that you read the instructions carefully and ensure that the contents are fully understood. Failure to understand and to comply with the warnings and instructions can result in serious injury, damage or even death.

In order to avoid the danger of electrical shock, it is important that proper safety measures are taken when working with voltages exceeding 30V AC RMS, 42V AC peak or 60V DC.

This product must only be used by a competent person capable of interpreting the results under the conditions and for the purposes for which it has been constructed. Particular attention should be paid to the Warnings, Precautions and Technical Specifications. Always check the unit is in good working order before use and that there are no signs of damage to it. Do not use if damaged.

Where applicable other safety measures such as use of protective gloves, goggles etc. should be employed.

Please keep these instructions for future reference. Updated instructions and product information are available at: www.martindale-electric.co.uk

REMEMBER: SAFETY IS NO ACCIDENT

MEANING OF SYMBOLS:



equipment complies with relevant EU Directives



equipment protected by double or reinforced insulation (Class II)



caution - risk of danger & refer to instructions



caution - risk of electric shock



end of life disposal of this equipment should be in accordance with relevant EU Directives

Thank you for buying one of our products. For safety and full understanding of its benefits please read this manual before use. Technical support is available from 01923 441717 and support@martindale-electric.co.uk.

CONTENTS

1	Introduction	1
1.1	Inspection	1
1.2	Description	1
2	Product Specific Safety Information	2
2.1	Precautions	2
3	Operation	3
3.1	Installing or Replacing Batteries	3
3.2	How it Works	3
4	Maintenance	4
4.1	Cleaning	4
4.2	Repair & Service	4
4.3	Storage Conditions	4
5	Warranty	5

Specifications

1. INTRODUCTION

1.1 Inspection

Examine the shipping carton for any sign of damage. Inspect the unit and any accessories for damage. If there is any damage then consult your distributor immediately.

1.2 Description

To install or replace batteries refer to section 3.1

The PD690 is a portable, battery powered proving unit for the testing of contact type voltage detectors up to 690V.

2. PRODUCT SPECIFIC SAFETY INFORMATION

2.1 Precautions

This product has been designed with your safety in mind, but please pay attention to the following warnings and cautions before use.

Do not use if the battery cover is not fitted.

Limit the test time to less than 10 seconds.

Do not short the output terminals.

Avoid severe mechanical shock or vibration and extreme temperature.

Remove the batteries when not in use for an extended period to avoid corrosion from leaking batteries.

Warning

Before use check the unit for cracks or any other damage. Make sure the unit is free from dust, grease and moisture. Also check any associated leads and accessories for damage. Do not use if damaged.

2

3. OPERATION

3.1 Installing or Replacing Batteries

Remove the rear battery cover by unscrewing the screw at the end of the cover. The screw is captive but once it is loose the cover can be slid downwards beyond the bottom end of the unit and lifted clear.

Fit 6 new LR6 (MN1500) 1.5V alkaline batteries, observing correct polarity.

Replace the battery cover by positioning it into the rear casing slots and sliding it upward into position, then tighten the screw. Do not over-tighten.

3.2 How it Works

Always make sure the precautions applicable to the unit being tested are observed.

Place one probe of the unit under test into the left hand socket until it makes contact with the terminal. Place the other probe into the right hand terminal and gently press down until the PD690 high voltage indicator illuminates and the probe makes contact with the terminal.

Observe that the required indicators on the unit under test illuminate, then withdraw the probe from the right hand terminal, then the left.

If the PD690 high voltage indicator fails to illuminate, check the condition of the batteries and replace if required (see paragraph 3.1).

3

4. MAINTENANCE

4.1 Cleaning

The unit may be cleaned using a soft dry cloth. Do not use moisture, abrasives, solvents, or detergents, which can be conductive.

4.2 Repair & Service

There are no user serviceable parts in this unit other than those described in section 3. Return to Martindale Electric if faulty. Our service department will quote promptly to repair any fault that occurs outside the guarantee period. (See page 5)

Before the unit is returned, please ensure that you have checked the batteries.

4.3 Storage Conditions

The instrument should be kept in warm dry conditions away from direct sources of heat or sunlight, and in such a manner as to preserve the working life of the unit. It is strongly advised that the unit is not kept in a tool box where other tools may damage it.

4

5. WARRANTY AND LIMITATION OF LIABILITY

This Martindale product is warranted to be free from defects in material and workmanship under normal use and service. The warranty period is 2 years and begins on the date of receipt by the end user. This warranty extends only to the original buyer or end-user customer and does not apply to fuses, disposable batteries, test leads or to any product which, in Martindale's opinion, has been misused, altered, neglected, contaminated, or damaged by accident or abnormal conditions of operation, handling or storage.

Martindale authorised resellers shall extend this warranty on new and unused products to end-user customers only, but have no authority to extend a greater or different warranty on behalf of Martindale.

Martindale's warranty obligation is limited, at Martindale's option, to refund of the purchase price, free of charge repair, or replacement of a defective product which is returned to Martindale within the warranty period.

This warranty is the buyer's sole and exclusive remedy and is in lieu of all other warranties, expressed or implied, including but not limited to any implied warranty of merchantability or fitness for a particular purpose. Martindale shall not be liable for any special, indirect, incidental or consequential damages or losses, including loss of data, arising from any cause or theory.

5

Since some jurisdictions do not allow limitation of the term of an implied warranty, or exclusion or limitation of incidental or consequential damages, the limitations and exclusions of this warranty may not apply to every buyer. If any part of any provision of this warranty is held invalid or unenforceable by a court or other decision-maker of competent jurisdiction, such holding will not affect the validity or enforceability of any other provision or other part of that provision.

Nothing in this statement reduces your statutory rights.

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Specification
PD690 Mk2
Proving Unit



Output Voltage:

approx 200V at 10kΩ load
approx 700V at 500kΩ load
50Hz nominal

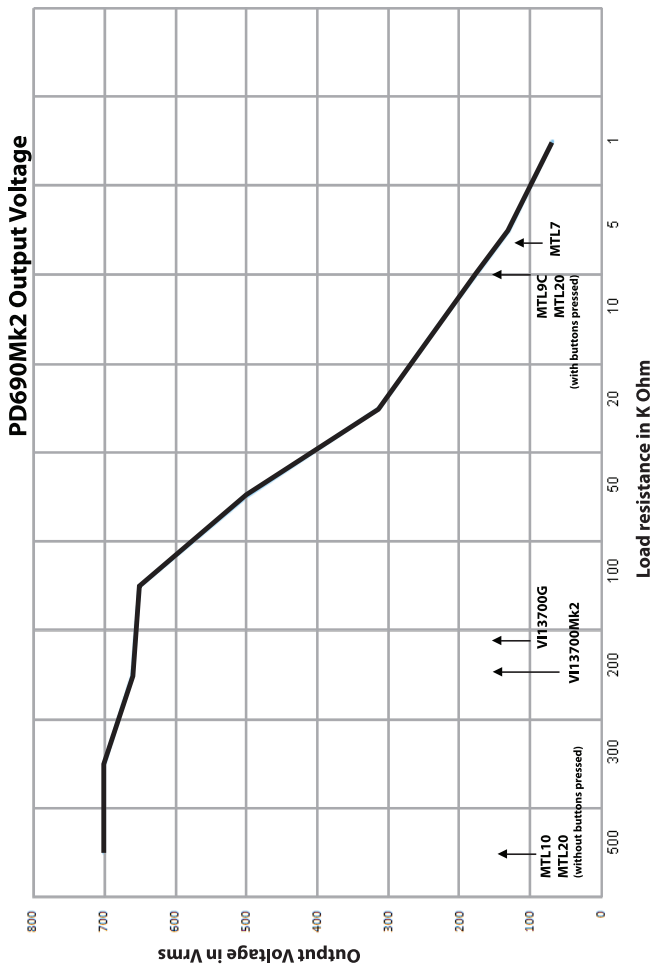
Batteries: 6 x LR6 (MN1500) 1.5V Alkaline batteries or equivalent (included)

Operating Temperature Range:

-10 to 40C at max. 70% RH

Dimensions: 143 x 84 x 50mm

Weight: 400g with batteries



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