

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 power on indicator fails to illuminate, check the condition of the batteries and replace if required (see paragraph 4.1).

4. MAINTENANCE

4.1 Battery Replacement

Remove the rear battery cover by unscrewing the large plated 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 slide upward into position, then tighten screw. Do not over-tighten.

4.2 Cleaning

After removal of the batteries the PD690 may be cleaned using a soft damp cloth and mild detergent. Do not use abrasives or solvents.

4.3 Repair & Service

There are no user serviceable parts in this unit. Return to Martindale Electric Company Ltd if faulty.

4.4 Storage Conditions

The PD690 should be kept in dry conditions away from direct sources of heat or sunlight, with the batteries removed and in such a manner as to preserve the working life of the PD690. It is strongly advised that the unit is not kept in a tool box where other tools may damage it.

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Proving Unit INSTRUCTIONS



PD690

SAFETY INFORMATION

Always read before proceeding.

These instructions contain both information and warnings that are necessary for the safe operation and maintenance of the PD690. It is recommended that you read the instructions carefully and ensure that the contents are fully understood. Failure to understand the instructions and to comply with the warnings and instructions contained herein 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.

The PD690 must only be used under the conditions and for the purposes for which it has been constructed. Particular attention should be paid to the safety instructions, the technical specifications and the use of the PD690 in a dry environment.

Always check the PD690 is in good working order before use and that there are no signs of damage to the unit. Do not use if damaged.

CONTENTS

1. Introduction	1.1 Description 1.2 Unpacking And Inspection
2. Technical Specification	
3. Operation	3.1 Precautions 3.2 Using the PD690
4. Maintenance	4.1 Battery Replacement 4.2 Cleaning 4.3 Repair & Service 4.4 Storage Conditions

1. INTRODUCTION

1.1 Description

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

1.2 Unpacking and Inspection

Before unpacking the PD690, examine the shipping carton for any sign of damage. Unpack and inspect the PD690 for any damage. If there is any damage then consult your distributor immediately.

2. TECHNICAL SPECIFICATION

Output Voltage:	approx 230V at 5k Ω load. approx 700V at 700k Ω load.
Output Loading:	> 4k Ω .
Batteries:	6 x LR6 (MN1500) 1.5V Alkaline batteries or equivalent (not included).
Operating Temperature Range:	-10 to 40C at max. 70% RH.
Dimensions:	143 x 84 x 50mm.
Weight:	270g (batteries not included).

3. OPERATION

3.1 Precautions

Before use check the PD690 for cracks or any other damage, and make sure the PD690 is free from dust, grease and moisture.

Do not use if the battery cover is not fitted.

Limit the test time to less than 10 seconds to avoid excessive drain on the batteries.

Do not short the output terminals, input resistance of the device under test should be >4k Ω .

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.

3.2 Using the PD690

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 power on indicator illuminates and the probe makes contact with the terminal.