






KEWPROVE 4 Proving Unit

1. SAFETY

1.1 Equipment Markings

	Caution - refer to the instruction manual
	Construction is double insulated
	Product should be recycled as electronic waste
	Confirms to EU standards

1.2 Operational Safety

 **Warning** - Risk of Electric Shock!
The proving unit generates up to 690V.

The KEWPROVE 4 is to be used by skilled persons in accordance with safe methods of work.

If the proving unit is used in a manner not specified by Kewtech, the protection provided by it may be impaired.

Inspect the proving unit before using. If any damage is visible such as cracks in the casing the unit should not be used.

Before use ensure the proving unit is free from moisture, grease and dust. If the unit requires cleaning use a soft dry cloth only.

2. DESCRIPTION

The UK designed KEWPROVE 4 Proving Unit provides a safe and reliable means of checking the correct operation of multimeters and two pole voltage indicators (VI).

2.1 Features

- Intelligent voltage ramp for testing multimeters and VIs.
- Generates outputs from 50 - 690V with a true AC waveform at 50Hz. This means it will always read correctly using the AC range of your tester or multimeter.
- Powerful enough to light old filament style lamps.
- Automatic operation and turn-off for ease of use and battery conservation.

2.2 Indication

The voltage ramp indication on all proving units is displayed clearly using red LEDs.

The KEWPROVE 4 indicates at 50/100/230/400/690 V.

A blue LED Power indicator that will flash to indicate when batteries need to be changed.

3.0 USAGE

3.1 Battery Installation and Status.

The KEWPROVE 4 has 6 x LR6 AA alkaline batteries.

Do Not use rechargeable batteries.

The batteries are accessible by removing two screws on the rear of the unit's case.

Ensure all testers are disconnected before accessing batteries.

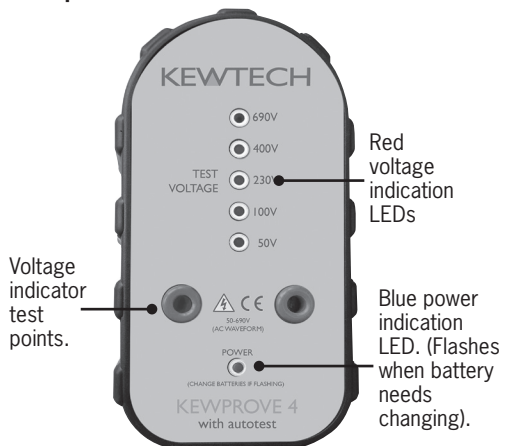
Do not mix old and new batteries.

For maximum life use only good quality batteries.

Dispose of batteries as required by local regulations.

The Blue power LED will flash when in operation if the batteries need to be changed.

3.2 Operation



3.3 How to Use

1) Prove your voltage indicator (VI) is working by placing a probe in each test point. Contact the bottom with the right hand probe then apply gentle downward pressure on the left hand probe. This will activate a micro switch, the blue power LED will illuminate and the proving unit will launch into Auto Prove Mode.

2) The Proving Unit will automatically step up to 690V. The unit then steps the voltage back down, (690V - 400V - 230V - 100V - 50V - OFF).

To reprove the VI again, simply raise and then depress the left hand probe and the Auto Prove Mode will cycle again.

Advantages of the Auto Prove Mode

- Individual voltages are applied at key voltage test points.
- If the two pole VI draws a high current from the proving unit the Auto Prove mode will pause. This is useful if testing certain types of two pole voltage testers, including those with filament lamps.
- Significant battery savings as the power is automatically switched off when the proving test is complete.
- After completion of the auto prove there is a closed circuit between the voltage indicator test points. This means that if your VI has a continuity function it will prove its operation and sound to confirm completion of the process.

3) Having established that your VI is working correctly carry out the testing required. If you are in doubt at any time use the proving unit to reprove the correct functioning of the VI.

4) Having completed your testing with the VI use the proving unit to ensure that it is still functioning correctly.

4. MAINTENANCE AND SERVICE

If required, clean with a soft, dry cloth. Do not use abrasives or solvents.

The only user replaceable parts are the 6 x AA alkaline batteries.

There are no user serviceable parts.

5. SPECIFICATIONS

Output voltage	50 - 690V in five steps (50V, 100V, 230V, 400V, 690V)
Safety compliance	BS EN 61010-1 : 2010
EMC compliance	61326-1 : 2006
Operating conditions	-10° to +35°C at 95% RH
Maximum output power	10W
Batteries	6 x LR6 AA alkaline batteries
Battery life	10 hours with average use when testing high and low power testers
Dimensions	W68 x H130 x D48mm
Weight	With batteries 350g