



KANE-PU690V

Proving Unit

Instruction Manual

Inventory No: MAN00159

Rev.: 1.0221

February 2021



690V AC Proving for Voltage Indicators

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Certificate of conformity

As the manufacturer of the instrument listed below, we declare under our sole responsibility that the product:

KANE-PU690V - Proving Unit

to which this declaration relates is in conformity with the relevant clauses of the following standards:

EN 61010-1
EN 61010-2-030
EN 61326-1
EN 61326-2-2

LVD, EMC & RoHS

The safety & performance of this instrument is assured when operated within the specifications in this instruction manual.

The product identified above conforms to the requirements of council directive 2014/30/EU and 2014/35/EU.

I. Overview

The KANE-PU690V proving unit is a compact & lightweight voltage proving unit designed for the compliance safety checking of 2 pole voltage testers prior to testing on a live circuit.

It is a requirement of the Electrical Safety Council and the HSE that every Electrician proves their voltage testers before & after confirming safe isolation. The KANE-PU690V is also high & low Z impedance compatible for proving voltage on multimeters.

II. Safety Notices


1. Please carefully read & fully understand the warnings & operating instructions before use. If the instrument is used in a manner not specified by the manufacturer, the protection provided by the instrument may be impaired.
2. If the proving unit appears damaged or is not working properly, stop using it immediately.
The operator's safety is no longer ensured, the instrument is to be put out of service & protected against use. Safety may be compromised if the instrument:
 - Shows obvious damage.
 - Does not carry out the desired measurements.
 - Has been stored for too long under unfavourable conditions.
 - Has been subjected to mechanical stress during transport.
3. Once the indicators on the voltage tester have been visualised, please remove the test probe from the right input first, & then from the left.


II. Safety Notices (continued)

4. Do not operate the proving unit for periods longer than 10 seconds.
3. Clean the tester casing with a damp cloth & mild detergent. Do not use abrasives or solvents!
4. When low battery indication appears, please replace the batteries.
5. Comply with local & national safety
6. The proving unit may not output voltage if the unit is used outside of the operating specifications (see technical specification for details).


III. Instrument & Manual Symbols

Symbols displayed on the instrument & in the instruction manual:

 Warning! Warns of potential danger, & to comply with the instruction manual.

 Caution! Dangerous voltage, potential risk of electrical shock.

 Equipment protected throughout by double or reinforced insulation.

 Conformity symbol, the instrument complies with the relevant directives. It complies with EMC Directive (2014/30/EU), Standards EN 61326-2-2. It also complies with the Low Voltage Directive (2014/35/EU), Standards EN 61010-1, EN 61010-2-030 & EN61326-1 are fulfilled.

III. Instrument Symbols (continued)



The KANE-PU690V meets the standard (2012/19/EU) WEEE. This marking indicates that this product should not be disposed with other household wastes throughout the EC. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return & collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.



The instruction manual contains information & references, necessary for safe operation & maintenance of the instrument. Prior to using the instrument the user is kindly requested to thoroughly read the instruction manual & comply with it in all sections.



Failure to read the instruction manual or to follow the warnings & references contained herein can result in serious bodily injury or instrument damage. The respective accident prevention regulations established by the professional associations are to be strictly enforced at all times.

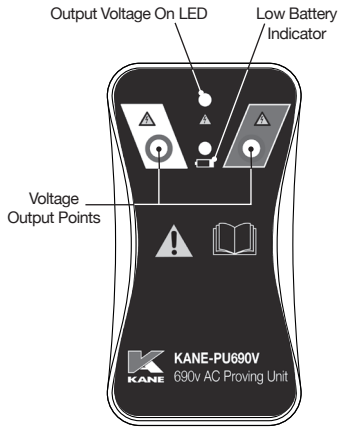
IV. KANE-PU690V Series Specification

KANE-PU690V Proving Unit Specifications	
	KANE-PU690V
Voltage Output	690V AC
Output current	<3.5mA
Frequency	50 Hz
Load	≥200 KΩ
High Voltage LED	✓
Low Voltage LED	✓
Low battery indication	≤ 7.6V
Safety rating	CAT II 750V
Operating temperature	-10°C to 40°C at max
Storage temperature	-10°C - 50°C
Relative humidity	≤70% non-condensing
Altitude	Up to 2000m
Pollution Degree	2
Dimensions (H/W/D)	140mm x 80mm x 50mm
Weight (net)	400g
Power supply	6 x 1.5V (LR6) AA (supplied)
EAN	5039046000540

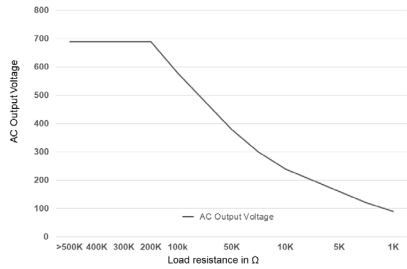


Measurement category II is for measurements performed on circuits directly connected to the low-voltage installation. Examples of this would be; measurements on household appliances, portable tools & similar equipment.

V. Display & Controls



Voltage output against load resistance chart



! All voltage indicators draw $<3.5\text{mA}$ & will indicate up to 690V but other manufacturers' instruments may vary.

1. Operating Instructions

Proof Testing

Insert the voltage tester probes into the output sockets (690V AC). Apply sufficient pressure to ensure a good connection. Check the voltage indication on the voltage indicator under test. Ensure the output voltage LED is on during the test. Once visual indication has been confirmed & verified, remove the right test probe first before removing the left test probe.

! Please note the output voltage may not be 690V & will depend upon the load applied by the voltage indicator.

2. Battery Replacement

Position the KANE-PU690V face down & release the single captive screw in the battery compartment cover.

Remove the battery compartment cover. Remove the discharged batteries from the compartment.

Fit a new set of LR6 (AA) 1.5v batteries.

Relocate the battery cover over the battery compartment & fasten in position with the battery cover captive screw.

3. Accessories

Optional Accessories for KANE-PU690V

MSC00125 Combined carry pouch for
KANE-PU690V
Proving Unit & Voltage Tester.

User Notes

4. 24 Month Warranty

The KANE-PU690V is warranted to be free from defects in materials & workmanship for a period of one year from the date of purchase. If within the warranty period your instrument should become inoperative from such defects, the unit will be repaired or replaced at KANE's discretion. This warranty covers normal use & does not cover damage which occurs in shipment or failure which results from alteration, tampering, accident, misuse, abuse, neglect or improper maintenance. Batteries & consequential damage resulting from failed batteries are not covered by warranty.

Any implied warranties, including but not limited to implied warranties of merchantability & fitness for a particular purpose, are limited to the express warranty. KANE shall not be liable for loss of use of the instrument or other incidental or consequential damages, expenses, or economic loss, or for any claim or claims for such damage, expenses or economic loss.

A purchase receipt or other proof of original purchase date will be required before warranty repairs will be rendered. Instruments out of warranty will be repaired (when repairable) for a service charge.

For more information on warranty & service, contact:

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