



VIP ESI 2 Pole Voltage Indicator

Description

The VIP ESI is a Two Pole Safety Tester with Hi / Lo Impedance check.

Product Standards / Markings / Specification

50 – 500 V AC/DC

40 – 50 Hz

CAT IV 600V

IP 54

Safety compliance BS EN 61010-2-030:2010

EMC Compliance BS EN 61326-2-2:2013

GS38 compliant prods

Duty cycle 30s ON / 240s OFF

Suitable for energized working (up to 600V) ⚠

WEEE

Conforms to EU standards

Storage / Cleaning / IP54 Rating

When not in use store the VIP ESI in its carry case (TECC2).



Avoid storing the tester in extremes of temperature.

Operating Conditions: -10 to +55°C @ 85% RH

If required, clean the unit with a damp cloth and mild detergent and dry thoroughly.

When storing the unit DO NOT wrap the test leads around the main body of the tester. Allow the cable to hang naturally. Always store inside a protective case.

The Socket & See VIP ESI is built to IP54. This means that it is protected against ingress of dust and splashing water from all directions. Exposure to dust and water above this rating may cause the unit to provide incorrect readings.

Pre-Use Inspection

Before use check the tester is free from contaminants such as dirt, grease or excessive moisture.

Ensure that the tester is free from damage and cracks and that the prods are in good condition.

Inspect the interconnecting cable for kinks and nicks. Look for signs of the inner white insulation that indicates damage or excessive wear.



Usage

Hold the tester firmly at all times ensuring fingers are behind the finger guards



Check the VIP ESI's operation before and after use on the SP400 proving unit (SOC/SP400)



Note the VIP ESI indicates on LEDs both on the main body and the end cap of the tester to allow clear indication in a link box or other confined spaces.



To measure voltage, touch the prods onto the circuit to be measured. Ensure there is a firm and clean contact.

DO NOT use the VIP ESI prods to pierce insulation as this may damage the prod and cause insulation to become trapped between the point of test and VIP ESI prod tip. This trapped insulation will interfere with the measurement.

To pierce the insulation your bespoke insulation piercing tool must be used. This will allow a good clean contact for the measurement.



If an AC voltage >110VAC is detected its impedance will be measured. The testers LEDs will pulse during this measurement to indicate that it is being carried out.

During this test keep a good connection between the prod tips and the test point.

A HiZ or LoZ indication will then be given.

RED LoZ will be indicated if the circuit impedance is below 100Ω

GREEN HiZ will be indicated if the circuit impedance is greater than 100Ω

GHOST VOLTAGE SUPPRESSION.

Ghost voltage suppression is automatic.

Firstly, they are moderately suppressed by the operating current of the VIP ESI.

Secondly persistent ghost voltages can be identified by the **RED** and **GREEN** impedance measurement. A ghost voltage should have an impedance of over 100Ω so a GREEN HiZ indication will be given.



If this indication is given, further checks can be carried out using a calibrated multimeter. On Volts AC setting a voltage will be indicated, on LoZ setting the voltage will be dissipated.