iVolt

Non Contact AC Voltage Detector

Instruction Manual & Specification

Issue

SS0012V2

Sn

1. Safety

1.1 Equipment Markings

	Caution - refer to the instruction manual
	Construction is double insulated
	Product should be recycled as electronic waste
CE	Conforms to EU standards
CAT IV	Measurement Category IV is applicable to test and measuring circuits connected at the source of the building's low-voltage MAINS installation. This part of the installation is expected to have a minimum of one level of over-current protective devices between the transformer and connecting points of the measuring circuit. Due to these high short-circuit currents (above 50kA) which can be followed by a high energy level, measurements made within these locations are extremely dangerous. Great precautions shall be made to avoid any chance of a short circuit. Examples of CAT IV are measurements on devices installed before the main fuse or circuit breaker in the building installation.

1.2 Operational Safety

The iVolt is designed to be used by skilled persons in accordance with safe methods of work. If the iVolt is used in a manner not specified by Socket and See, the protection provided by it may be impaired.

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

Keep fingers behind the finger guard.

This tester has been designed to be used with suitable PPE, including insulated gloves if required.

Never attempt to use the instrument on any circuit where voltage exceeds 600VAC.

To maintain safety, check the operation of the iVolt both before and after use on a known source or proving unit. The Socket and See SP400 proving unit has a true AC output and a non contact voltage detector proving facility.

Warning - Electric Shock Hazard

- Contact with live circuits can result in severe injury or death
- **Do not** use the unit if it is wet or damaged
- **Do not** use where voltages are in excess of 600 V
- **Do not** operate with the case open
- **Do not** attempt to repair this unit
- **Do not** expose this unit to extremes in temperature or high humidity

1.3 Limitations of Using the iVolt to detect Hazardous Voltages

The limitation of any single pole voltage tester is that a so called "ghost voltage" may indicate a voltage present greater than 50 volts.

Ghost voltages that appear to be greater than 50 volts may not be dangerous however to prove if the voltage indicated is a ghost or dangerous real voltage a quality 2 pole tester, (such as one from the Socket and See VIP range), should be used to prove the indication obtained from the iVolt.

The iVolt can not detect voltage on armoured or sheathed cable, or on cable in conduit, behind panels or in metallic enclosures.

For further information on single pole voltage detection, on contact voltage detection and ghost voltages please refer to the technical document on the Socket and See website.

2. Description

The UK designed iVolt non contact voltage detector is intended to check for the presence of dangerous AC voltages. Voltage presence is signalled by a bright red LED situated within the white tip of the unit and an audible buzzer.

2.1 Features

1. Non-contact detection of AC Voltage 90V - 600V 50Hz/60Hz

2. Visual and audible warning of voltage

3. Super bright LED flashlight built in

The iVolt is useful for identifying live conductors, finding a break in a wire, verifying a blown fuse while in a circuit and detecting the presence of AC voltage at:

- Socket outlets
- Switches
- Circuit breakers
- Fuses
- Wires and cables
- Luminaires

3. Usage

3.1 Battery Installation

1. Remove the unit from the proximity of any live circuits
2. Turn off the flash light
3. Remove battery cap (1) by lifting clip (2) slightly and pulling off body (3)
4. Replace batteries, observing correct type and polarity
5. Replace battery cap (1)

3.2 Voltage Detecting

Test the operation of the iVolt on a know live source before use.
Holding the product firmly with fingers away from the tip, apply the tip to the surface to be tested. A red LED and audible tone will indicate a voltage is present.

3.3 Flashlight

Operate the black button alternately to switch the LED flashlight on and off.

4. Maintenance and Service

If required, clean with a damp cloth and mild detergent. Do not use abrasives or solvents.

There are no user serviceable parts.

Contact Socket and See for parts and technical assistance.

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Specification	
Operating Voltage Range	90-600V AC 50Hz/60Hz
Operating Temperature	-10°C - 50°C
Humidity	Max 90%
Safety Compliance	EN 61010-1:2010
EMC	EN 61326
Overvoltage Category	CAT IV 600V
Batteries	2x AAA / LR03
Dimensions	185mm x 26mm
Weight	54g (including batteries)

Ordering Information	
Item	**Supplier Code**
Socket and See iVolt	SOC/iVolt
Socket and See SP400 Proving Unit with non contact voltage check	SOC/SP400