

# SOCKET & SEE™

## IRC PRO Insulation and Continuity Tester



- 3 insulation test ranges (250V, 500V and 1000V)
- Auto ranging continuity up to 19.99 kohms
- Buzzer facility for “belling out”
- Hazardous voltage LED and audible tone
- Fully BS EN 61010 and BS EN 61557 certified
- Nulls leads up to 5Ω
- Handsfree function
- Auto switch off function for battery preservation
- Dual insulated wear indicating test leads
- GS38 prods and clips
- Measurement category CAT III 500V (CAT IV 300V)

### Description

The Socket & See IRC PRO features 1,000V testing, with up to 500 tests from a single set of 4 x AA alkaline batteries. Expect even more tests when testing at 250V or 500V.

Other useful features include a large back lit display and protective rubber over mold, making the IRC PRO a versatile unit suitable for many environments. The unit is also fully protected against accidental connection to the mains, an often easy and expensive mistake.

### Insulation

Turn the rotary dial to the required test voltage. Push the test button. During the test the LCD will indicate the test voltage being applied. The result will then be shown.

### Continuity Null

To ensure greater accuracy when performing continuity tests a lead null should be carried out. This will ensure that test lead resistance is taken into account when testing.

### Continuity

Turn the rotary dial to the continuity position. Apply test leads to the resistance to be measured and press the test button. To ensure accurate results, the test leads should be nulled.

### Hands Free

Hands free operation is available for Continuity or Insulation functions. Select the function required with the rotary dial. Press the hands free button. HANDSFREE will be displayed. Once the test button is pressed the tester will continue to perform the selected test until the hands free is deselected, the test button is pressed or the unit is powered off.

### Buzzer

The buzzer function is used for quick and easy “belling out”. Turn the rotary dial to the buzzer function and apply the test leads to the resistance to be measured.

The Socket & See IRC PRO is fully BS EN 61010 and BS EN 61557 certified.  
EMC compliance - BS EN 61326

## SPECIFICATIONS

### Insulation Test Range Accuracy

Test Voltages  
250V, 500V and 1000V

Ranges (Auto Range) inc. tolerance at 20°C	
250V	0.01 to 9.99 MΩ (±3% + 1 digits) 10.0 to 99.9 MΩ (±3% + 1 digits) 100 to 199 MΩ (±6% + 1 digits)
500V	0.01 to 9.99 MΩ (±3% + 1 digits) 10.0 to 99.9 MΩ (±3% + 1 digits) 100 to 199 MΩ (±3% + 1 digits) 200 to 499 MΩ (±6% + 1 digits)
1000V	0.01 to 9.99 MΩ (±3% + 1 digits) 10.0 to 99.9 MΩ (±3% + 1 digits) 100 to 399 MΩ (±3% + 1 digits) 400 to 999 MΩ (±6% + 1 digits)

### Continuity Test Range Accuracy

Test Range 0.00 to 9.99 Ω  
0.0 to 99.9 Ω  
100 to 19.99 kΩ

Tolerance at 20°C ±(3% + 2 digits)

Open Circuit Voltage >4V, <10V

Zero Offset Adjust (test lead null) 5Ω

Typical Test Time >2 seconds

Hazard Warning LED >25V

### Insulation Output Voltage

Voltage 250V  
Load 250 kΩ  
Output Current 1 mA  
Tolerance -10% +20%

Voltage 500V  
Load 500 kΩ  
Output Current 1 mA  
Tolerance -10% +20%

Voltage 1000V  
Load 1 MΩ  
Output Current 1 mA  
Tolerance -10% +20%

Short Circuit Current < 2 mA  
(into 2 kΩ)

Typical Test Time < 2 seconds  
(10 MΩ)

Power Supply 4 x AA LR6 batteries

Battery Life 50 hours

Overvoltage Category CAT III 500V  
CAT IV 300V

Operating Temperature 0 - 40°C

Storage Temperature -10°C to 60°C

Operating Humidity 80% @ 31°C to 50% @ 40°C

Safety Compliance BSEN 61010-2-030:2010

EMC Standard BSEN 61326-2-2:2013

Performance Standard BSEN 61557-1:2007  
BSEN 61557-2:2007  
BSEN 61557-4:2007

Probes GS38 Compliant

Dimensions (mm) 180mm x 85mm x 50mm

Weight (g) Approximately 450g

What's included...

Socket & See IRCPRO

Lead Set

Instruction Manual

Magnetic Hanging Strap

Carry Case

Batteries

Order code: SOC/IRCPRO