



SOCKET & SEE™

- Provides ongoing accuracy checks for:
 - Continuity
 - Insulation resistance
 - Earth fault loop impedance
- Continuity check values: 0.5Ω, 1Ω, & 2Ω
- Lead null feature for the for the continuity test range
- Insulation check values: 0.5MΩ, 2MΩ & 200MΩ
- Earth fault loop impedance checks:
 - 'Local' earth fault loop impedance
 - Earth fault loop plus 1Ω
- Type of Check Box Recommended by the NICEIC

CB 100 Quick Check Box



CB 100

The Socket & See CB 100 check box provides a quick and simple method of checking the ongoing accuracy of electrical installation test instruments. It does not replace the calibration requirements but provides a ready check on instrument accuracy helping to minimise incorrect certification and costly revisits to confirm installation compliance.

Insulation Resistance Checks

Can be used to check insulation resistance testers across its voltage range (e.g. 250V, 500V and 1000V settings). The appropriate resistance scale and test voltage are selected on the instrument being checked. The measured value obtained is recorded on its record sheet and compared to the check box calibration values for the 0.5MΩ, 2MΩ and 200MΩ check values. If the measured values are found to be within the manufacturer's tolerance then the instrument is suitable for continued use. If the measured values are outside the manufacturer's tolerance then the instrument will need to be returned for calibration.

Continuity Testing Checks

The CB 100 includes 'lead null' connections, for those test instruments that include the option to null the leads, and three check resistance values (0.5Ω, 1Ω and 2Ω).

Specifications

Function	Check Values	Accuracy	Rating
Insulation Test	0.5 MΩ	1 %	Voltage rating up to 1000V
	2.0MΩ	1 %	
	200 MΩ	2%	
Continuity Test	0.5 Ω	1 % ±20 mΩ	Current rating: 1A
	1.0 Ω		
	2.0 Ω		
Loop Test	Additional 1Ω switched in to the Earth Loop	1 % ±20 mΩ	Current rating: 25A (pulsed)

Earth Fault Loop Impedance Checks

The CB 100 provides a facility to check the accuracy of earth fault loop impedance testers. The socket outlet and the loop impedance switch in the CB 100 provide tests of the CB 100 'local' earth fault loop impedance and the CB 100 earth fault loop with an additional 1Ω included.

Site Check

The CB 100 provides a fast check option for the earth fault loop impedance tester. This enables the instrument to be checked on site to confirm the accuracy of the instrument measurement. This site check consists of a measurement of the CB 100 local loop and then the same measurement with the 1Ω resistance added. This will identify whether the instrument is accurately measuring the 1Ω increase. If the results show the instrument is measuring the values, within the instrument manufacturer's tolerance, then the instrument is suitable for continued use. If the results are outside the permitted range then the instrument should be returned for calibration.

This same on site check facility can be used for continuity and insulation instrument checks

General Specifications

Safety: Complies with IEC EN 61010
Case size: 210 x 165 x 90 mm
Weight without leads: 750 g

Contents

CB 100 unit
Mains Power

