TEL: +44 (0)1207 521 481

WEB: www.calcards.co.uk
Email: sales@calcards.co.uk

Unit 29, Deneside
Lanchester
Co Durham
DH7 0LX
United Kingdom

INSTRUCTIONS FOR THE USE OF CALCARD

The CalCard provides a series of resistors that are used to validate that the test instrument is still measuring correctly a range of values for continuity and isolation. This meets the specified requirements found in Institution of Engineering and Technology (IET) released Revision A of EAS 15-362 – **Electrotechnical Assessment Specification**

The ongoing measurement is compared against the base values that are recorded following a certified calibration process. The resistors do not have to be precise as it is the relative measurement that is important not the absolute.

The CalCard is not designed for RCD testing or Zs testing. An accepted procedure for carrying out these tests are described in another document downloadable from https://calcards.co.uk/support/

Instructions.

Using the CalCard is not at all complex, To make a resistance measurement: -

1. Place one probe on either of the pads surrounded by black and labelled “Common”.
2. Place the other probe in the pad of the required value.

Recording the “Base” Values

The first task when you receive your CalCard and following the instruments Calibration is to record the base line measurements. The “Base” values represent the values to be compared with when future checks are made.

Rather than been recorded on paper in offices, the CalCard enables them to be indelibly recorded on the card where you need them for easy comparison.

The rear of the card has a peel down stick plastic cover. Before you peel off this protective paper; record the first base line measurements in each of the corresponding boxes on the rear of the card. Best thing to write with is a fine fibre tipped felt pen or similar.

As depicted overleaf, once all the readings are recorded then they can be protected by peeling down the protective laminate Illustrated by these pictures:-

Write in fibre tipped pen the "base" values

Peel off paper from laminate

Stick Down Protective Laminate

The Finished Process

Record keeping

It is the requirement of a “competent person” to record the results of the check you have carried out between formal calibration periods. This enables you to demonstrate at an assessment the accuracy and consistency of your Insulation and Continuity test instrument over time.

The CalCard fulfils this requirement by providing the five reference circuits for insulation and a further five reference circuits for continuity checking. Each CalCard is designated and identifiable by its own unique serial number.

A typical record sheet for the CalCard is downloadable from the website at: -
https://calcards.co.uk/support/

Specifications and Guarantees

CalCard guarantee is provided by the manufacture TestCal for a period of three years from purchase and a direct replacement card will be provided should a fault develop.

The CalCard is tested and designed to work up to 1,500V, however the resistor values are verified at 500V (which is most common in most Insulation testers). The tolerance measurements on all the test points are +/- 1% and they are guaranteed not to drift +/- 0.04% over the period.

Providing the CalCard is not exposed to extended periods of sunlight or subjected to high moisture environments the CalCard life will be extended indefinitely. Also the card is rugged but it is not unbreakable if you subject it to excessive force and/or bending it would be possible to break the circuitry inside.