Description

A precision instrument suitable for calibrating and testing general purpose insulation testers and megohmmeters with test voltages up to 2.5 kV. It is constructed in a high strength co-polymer plastic case and is powered by a rechargeable battery. This ensures full isolation from the mains and prevents stray leakage.

The insulation tester being calibrated can be tested for open circuit voltage and short circuit current. These are displayed on the digital meter mounted on the front panel. Nine selectable precision resistors provide the insulation resistance test. Also fitted are 4 fixed low resistance values for verification of the low ohm ranges and continuity. Rugged, compact and portable, the 5068 is easy to transport and ideal for site calibration work. Also available is the 5069, 10 kV version.

Specifications

Resistance (Insulation) ........................................... 10 GΩ, 1 GΩ, 400 MΩ, 250 MΩ, 100 MΩ, 10 MΩ, 1 MΩ, 500 kΩ, 100 kΩ.

Resistance (Low ohm) ............................................ 1 Ω, 10 Ω, 100 Ω, 1 kΩ.

Resistance accuracy .............................................. Low ohm resistance: 1 %.

Insulation resistance: 100 kΩ to 1 GΩ: 1 %.

Insulation resistance: 10 GΩ: 5 %.

Resistance temperature coefficient ............................. Insulation resistance: < 250 ppm/°C.

Low ohm resistance: < 50 ppm/°C.

Continuity ........................................................................ Selectable 5 Ω.

Open circuit voltage measure ................................. 0 to 2 kV range & 0 to 2.5 kV range: 1 % FS accuracy.

Voltage display ......................................................... 1.999 kV full scale and 2.50 kV full scale.

Voltage temperature coefficient .................................. < 300 ppm/°C.

Short circuit current measure ................................. 0 to 2 mA and 0 to 20 mA ranges: 1 % FS accuracy.

Current display ......................................................... 1.999 mA full scale, and 19.99 mA full scale.

Current temperature coefficient ................................. < 450 ppm/°C.

Power .............................................................. Internal battery, 6 V re-chargeable NiCd, > 150 hrs between charges.

Dimensions / Weight .................................................. W 270 x H 175 x D 250 mm / 2.1 kg.

Supplied with .................................. High voltage safety connection leads (2.5 kV). Low resistance leads.

Mains battery re-charger (230 V 50 Hz).

Features

- Insulation resistance from 100 kΩ to 10 GΩ
- Low ohm verification at 1 Ω, 10 Ω, 100 Ω, 1 kΩ
- Basic accuracy 1 %
- Up to 2.5 kV operation
- Battery operation (> 150 hrs between charges)
- Continuous connection – no arcing
- Fully shrouded safety connectors
- Display of open circuit voltage
- Display of short circuit current

Ordering Information

5068 .................................................... Insulation Tester Calibrator (InsCal)

C189 ................................................ Traceable calibration certificate (Factory)

C112 ................................................. Accredited calibration certificate (ISO 17025)