



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 G Ω , 1 G Ω , 400 M Ω , 250 M Ω , 100 M Ω , 10 M Ω , 1 M Ω , 500 k Ω , 100 k Ω .
Resistance (Low ohm)	1 Ω , 10 Ω , 100 Ω , 1 k Ω .
Resistance accuracy	Low ohm resistance: 1 % Insulation resistance: 100 k Ω to 1 G Ω : 1 % Insulation resistance: 10 G Ω : 5 %.
Resistance temperature coefficient	Insulation resistance: < 250 ppm/ $^{\circ}$ C. Low ohm resistance: < 50 ppm/ $^{\circ}$ 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/ $^{\circ}$ 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/ $^{\circ}$ C.
Power	Internal battery, 6 V re-chargeable NiCad, >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).

Due to continuous development Time Electronics reserves the right to change specifications without prior notice.

Features

- Insulation resistance from 100 k Ω to 10 G Ω
- Low ohm verification at 1 Ω , 10 Ω , 100 Ω , 1 k Ω
- 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)