



# 5069 INSCAL Insulation Tester Calibration System

Time Electronics

Calibration, Test & Measurement

- Insulation resistance from 100kΩ to 100GΩ
- Basic accuracy 1%
- 10kV max
- Battery operation
- Continuous connection - no arcing
- Fully shrouded safety connectors
- Display of open circuit voltage (0 – 2kV or 0 – 10kV)
- Display of short circuit current (0 - 2mA or 0 - 20mA)



The 5069 is a precision instrument suitable for calibrating and testing general purpose insulation testers with test voltages up to 10kV.

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. The insulation resistance is provided by a precision 4 dial decade resistance bank which can be set to a maximum of 99.99GΩ with additional resistance values of 100kΩ, 200kΩ, 500kΩ, 1MΩ, 2MΩ and 5MΩ which can be switched in as required.

The 5069 is constructed in the same style as Time Electronics' well established 5080 PatCal but is suitable for use up to 10kV.

### 5069 Technical Specifications

<b>Resistance:</b>	10GΩ, 1GΩ, 100MΩ, 10MΩ decade ranges.
<b>Fixed Values:</b>	5MΩ, 2MΩ, 1MΩ, 500KΩ, 200KΩ, 100KΩ.
<b>Resistance accuracy:</b>	100kΩ - 5MΩ, 1%. 10MΩ - 10GΩ, 1%. 10GΩ - 100GΩ, 5%.
<b>Resistance temperature coefficient:</b>	Less than 250ppm per °C
<b>Open circuit voltage measure:</b>	0 to 2kV range, accuracy 1% of FS 0 to 10kV range, accuracy 2% of FS.
<b>Voltage display:</b>	1.999kV full scale, and 10.00kV full scale
<b>Short circuit current measure:</b>	0 to 2mA range, 0 to 20mA range, both ranges 1% of f/s accuracy
<b>Current display:</b>	1.999mA full scale, and 19.99mA full scale
<b>Power:</b>	Internal battery, 6V re-chargeable NiCad, >150hrs between charges

### General Specification

<b>Dimensions:</b>	406W x 330D x 175H mm
<b>Weight:</b>	4.4Kg
<b>Supplied with:</b>	Safety connection plugs/leads with bare ends to allow custom fitted connectors Mains battery re-charger (230V 50Hz)

### Ordering Information

Code	Description
5069	INSCAL Insulation Tester Calibration System
9189	Factory (NPL Traceable) Calibration Certificate
9112	UKAS Calibration Certificate (ISO 17025)

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

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