



- **Insulation resistance from 100KΩ to 100GΩ**
- **Basic accuracy 1%**
- **Up to 10kV 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**

DESCRIPTION

A precision instrument suitable for calibrating and testing general purpose insulation testers and megohmmeters 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.

Rugged and portable, the 5069 is ideal for site calibration work. Also available is the 5068 InsCal, 2.5kV version.

SPECIFICATIONS

Resistance	10GΩ, 1GΩ, 100MΩ, 10MΩ decade ranges.
Fixed Values	5MΩ, 2MΩ, 1MΩ, 500KΩ, 200KΩ, 100KΩ.
Resistance accuracy	100kΩ to 5MΩ = 1%. 10MΩ to 10GΩ = 1%. 10GΩ to 100GΩ = 5%.
Resistance temperature coefficient	Less than 250ppm per °C
Open circuit voltage measure	0 to 2kV range, accuracy 1% of f/s. 0 to 10kV range, accuracy 2% of f/s.
Voltage display	1.999kV full scale, and 10kV full scale.
Short circuit current measure	0 to 2mA range and 0 to 20mA range = 1% of f/s accuracy.
Current display	1.999mA full scale, and 19.99mA full scale.
Power	Internal battery, 6V re-chargeable NiCad, >150hrs between charges.
Dimensions / Weight	W406 x H175 x D330mm / 4.4kg.
Supplied with	Safety connection leads with bare end to allow custom probes (10kV rated), 4mm 5kV test lead set, wallet to carry test leads, and mains charger.

ORDERING INFORMATION

5069	INSCAL Insulation Tester Calibration System
C189	Factory Calibration Certificate (NPL)
C112	UKAS Calibration Certificate (ISO 17025)

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