



- Insulation resistance from 100KΩ to 10GΩ
- Low ohm verification at 1Ω, 10Ω, 100Ω, 1KΩ
- Basic accuracy 1%
- Up to 2.5kV 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 2.5kV.

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 ideal for site calibration work. Also available is the 5069, 10kV version.

SPECIFICATIONS

(accuracies specified between 15°C and 25°C)

Resistance (Insulation)	10GΩ, 1GΩ, 400MΩ, 250MΩ, 100MΩ, 10MΩ, 1MΩ, 500KΩ, 100KΩ
Resistance (Low ohm)	1Ω, 10Ω, 100Ω, 1KΩ
Resistance accuracy	Low Ohm = 1%, Insulation resistance: 100KΩ to 1GΩ = 1%. 10GΩ = 5%
Resistance temperature coefficient	< than 250ppm/°C insulation resistance, < 50ppm/°C low resistance
Continuity	Selectable 5Ω
Open circuit voltage measure	0 to 2kV range and 0 to 2.5kV range = 1% of f/s accuracy
Voltage display	1.999kV full scale, and 2.50kV full scale
Voltage temperature coefficient	< than 300ppm/°C
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
Current temperature coefficient	< than 450ppm/°C
Power	Internal battery, 6V re-chargeable NiCad, >150hrs between charges
Dimensions / Weight	W270 x H175 x D250mm / 2.1kg
Supplied with	High voltage safety connection leads (2.5kV). Low resistance leads. Mains battery re-charger (230V 50Hz)

ORDERING INFORMATION

5068	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.