



5068 INSCAL Insulation Tester Calibration System

Time Electronics

Calibration, Test & Measurement

- Insulation resistance from 100KΩ to 10GΩ
- Low ohm verification at 1Ω, 10Ω, 100Ω, 1KΩ
- Basic accuracy 1%
- 2.5kV max
- Battery operation
- Continuous connection - no arcing
- Fully shrouded safety connectors
- Display of open circuit voltage (0 – 1.999kV or 0 – 2.50kV)
- Display of short circuit current (0 - 2mA or 0 - 20mA)



The 5068 is a precision instrument suitable for calibrating and testing general purpose insulation testers 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.

Also available is the 5069, 10kV version, see separate data sheet.

5068 Technical Specifications

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 - 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, 0 to 2.5kV range, both ranges 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, 0 to 20mA range, both ranges 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

Above accuracies specified between 15°C - 25°C

General Specification

Dimensions:	270W x 246D x 175H mm
Weight:	2.1Kg
Supplied with:	Safety connection leads to allow custom 4mm connectors and low resistance leads Mains battery re-charger (230V 50Hz)

Ordering Information

Code	Description
5068	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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