



- 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.<br>Mains battery re-charger (230V 50Hz) |

### ORDERING INFORMATION

|                   |  |
|-------------------|--|
| <b>5068</b> ..... | <b>INSCAL Insulation Tester Calibration System</b> |
| <b>C189</b> ..... | <b>Factory Calibration Certificate (NPL)</b>       |
| <b>C112</b> ..... | <b>UKAS Calibration Certificate (ISO 17025)</b>    |

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