



Description

A precision CalBench module suitable for calibrating and testing general purpose insulation testers and megohmmeters with test voltages up to 2.5 kV.

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 module 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 portable equivalent model 5068, or the 5069 calibrator that covers insulation resistance from 100 k Ω to 100 G Ω with up to 10 kV operation.

Specifications

Resistance (Insulation) 10 G Ω , 1 G Ω , 400 M Ω , 250 M Ω , 100 M Ω , 10 M Ω , 1 M Ω , 500 k Ω , 100 k Ω .

Resistance (Low ohm) 1 Ω , 10 Ω , 100 Ω , 1 k Ω .

Resistance accuracy Low ohm resistance: 1 %
Insulation resistance: 100 k Ω to 1 G Ω : 1 %
Insulation resistance: 10 G Ω : 5 %.

Resistance temperature coefficient Insulation resistance: < 250 ppm/ $^{\circ}$ C.
Low ohm resistance: < 50 ppm/ $^{\circ}$ C.

Continuity Selectable 5 Ω .

Open circuit voltage measure 0 to 2 kV range & 0 to 2.5 kV range: 1 % FS accuracy.

Voltage display 1.999 kV full scale and 2.50 kV full scale.

Voltage temperature coefficient < 300 ppm/ $^{\circ}$ C.

Short circuit current measure 0 to 2 mA and 0 to 20 mA ranges: 1 % FS accuracy.

Current display 1.999 mA full scale, and 19.99 mA full scale.

Current temperature coefficient < 450 ppm/ $^{\circ}$ C.

Module Width W235 (primary or secondary console fitting)

Supplied with High voltage safety connection leads (2.5 kV). Low resistance leads.

Features

- Insulation resistance from 100 k Ω to 10 G Ω
- Low ohm verification at 1 Ω , 10 Ω , 100 Ω , 1 k Ω
- Basic accuracy 1 %
- Up to 2.5 kV operation
- Continuous connection – no arcing
- Fully shrouded safety connectors
- Display of open circuit voltage
- Display of short circuit current



Ordering Information

- 5068B Insulation Tester Calibrator Module
C189 Traceable calibration certificate (Factory)
C112 Accredited calibration certificate (ISO 17025)

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