



- For calibration of PATs and VDE 0701 testers
- Earth bond range 18Ω to 20mΩ
- Earth bond currents up to 50A AC
- Load test currents up to 13A AC
- V & I displayed on integral LCD digital meter
- Safety interlock feature
- Battery operation (>200 hrs between charges)
- Portable and robust carrying case

### DESCRIPTION

A precision calibrator designed to provide rapid high accuracy calibration of portable appliance testers and insulation/continuity testers. The 5080 has calibration functions for earth bond, insulation, leakage, touch leakage, and load test. Housed in a robust safety case the 5080 is easily portable and ideal for field calibration work. It is battery powered, which ensures isolation and prevents inaccuracies due to stray leakage. Features include safety interlock that prevents contact with earth bond studs during insulation and leakage tests, and an LCD display for voltage and current.

### SPECIFICATIONS

#### Earth Bond – Calibrated low value resistive loads

20mΩ, accuracy 5%. 190mΩ, 210mΩ, 950mΩ, 1.050mΩ, 1.08Ω, 2Ω, 10Ω, 18Ω, accuracy 1%

Open circuit voltage measurement ..... Range: 0 to 20V. Accuracy: 0.25% of full scale

High current AC measurement ..... Range: 0 to 50A AC. Accuracy: 0.5% of reading +/- 0.2A

Low current AC measurement ..... Range: 0 to 2A AC. Accuracy: 0.5% of reading +/- 2mA

Low current DC measurement ..... Range: 0 to 2A DC. Accuracy: 1% of reading +/- 2mA

#### Insulation – Calibrated high value resistive loads

95kΩ, 105kΩ, 500kΩ, 950kΩ, 1.05MΩ, 5MΩ, 10MΩ, accuracy 0.1%. 20MΩ, 50MΩ, 100MΩ, accuracy 1.0%

Open circuit voltage measurement ..... Range: 0 to 1kV DC. Accuracy: 0.25% of full scale

Current measurement ..... Range: 0 to 20mA DC. Accuracy: 0.25% of full scale

#### Leakage – Resistive loads for leakage current

Nominal leakage currents at 230V AC of 0.5, 1, 2, 5, 10, 15mA

Mains voltage measurement ..... Range: 0 to 500V AC. Accuracy 0.25% of full scale

Leakage current measurement ..... Range: 0 to 20mA AC. Accuracy 0.25% of full scale

#### Touch Leakage – Constant current source for touch leakage meters

Current ..... 1.9mA AC 50 +/-5 Hz, into 2K2 maximum load resistance

Current measurement ..... Range: 0 to 2mA AC. Accuracy: 0.25% of full scale

#### Load Test – Connection of external load via a IEC connector

Mains voltage measurement ..... Range: 0 to 500V AC. Accuracy: 0.25% of full scale

Load current measurement ..... Range: 0 to 13A AC. Accuracy: 0.5% of full scale

Dimensions / Weight ..... W406 x H175 x D330mm, weight 5.5kg

Power ..... Internal battery 6V re-chargeable NiCad, >200 hrs between charges.

### ORDERING INFORMATION

5080 ..... PATCAL – Portable Appliance Tester Calibrator

C188 ..... Factory Calibration Certificate (NPL)

C135 ..... UKAS Calibration Certificate (17025)

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

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