



# 5080 PatCal 2 - Calibrator for PATs

Time Electronics

Calibration, Test & Measurement

- Suitable for traceable calibration of PATs and VDE 0701 testers
- Impact resistant case to IEC1010
- Battery powered – ensures isolation and prevents inaccuracies due to stray leakage
- Voltage and Current displayed on integral LCD digital meter
- Safety interlock prevents contact with Earth Bond studs during Insulation and Leakage tests
- Earth Bond currents up to 50A AC can be accurately measured
- Load Test currents up to 13A AC can be accurately measured



**PAT-Cal2** is designed to provide rapid high accuracy calibration of PATs (Portable Appliance Testers) and Insulation / Continuity Testers. All in one unit, it contains calibration functions for Earth Bond, Insulation, Leakage, Touch Leakage and Load Test.

### 5080 Technical Specifications

#### EARTH BOND - Calibrated low value resistive loads

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

Open circuit voltage measurement: Range 0 – 20V accuracy 0.25% of full scale

High current AC measurement: Range 0 – 50A AC accuracy 0.5% of reading +/- 0.2A

Low current AC measurement: Range 0 – 2A AC accuracy 0.5% of reading +/- 2mA

Low current DC measurement: Range 0 – 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 – 1kV DC accuracy 0.25% of full scale

Current measurement: Range 0 – 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 – 500V AC accuracy 0.25% of full scale

Leakage current measurement: Range 0 – 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: 0 – 2mA AC, accuracy 0.25% of full scale

#### LOAD TEST - Connection of external load via a IEC connector

Mains voltage measurement: Range 0 – 500V AC accuracy 0.25% of full scale

Load current measurement: Range 0 – 13A AC accuracy 0.5% of full scale

### General Specification

**Dimensions:** 406W x 175H x 330D mm.

**Weight:** 5.5Kg

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

### Ordering Information

Code	Description
5080	PatCal 2 - Calibrator for PATs
9188	Factory (NPL Traceable) Calibration Certificate
9135	UKAS Calibration Certificate (ISO 17025)

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

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