



# 5080 PatCal 2 - Calibrator for PATs

Time Electronics

Calibration, Test & Measurement

- For calibration of PATs and VDE 0701 testers
- 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
- Impact resistant case



**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.

Time Electronics, Botany Industrial Est. Tonbridge, Kent. England. TN9 1RH.

Tel: +44 (0)1732 355993 Fax: +44 (0)1732 770312 E-mail: mail@timeelectronics.co.uk

www.timeelectronics.com

V1f 28/07/09