

# Delta aPAT Pro Print Pack - MKII

**NEW**  
Delta aPat Pro Print Pack MKII



\*Tablet shown is optional

New version system includes the Zebra ZQ520 tag printer



The Delta aPAT Pro Print Pack is an advanced complete Portable Appliance Testing solution. The pack comes with a Metrel Delta 3309BT, a Zebra ZQ520 for printing quality test tags with custom logos, the advanced aPAT android interface for data entry and all contained in a purpose built heavy duty safe case.

aPAT enables fast and simple data management of tested appliances, as well as a quick overview of already performed tests by simply scanning a QR code. The Application enables the user to send results to the main office before leaving test sites, enter and save data by using a Smart phone or tablet keyboard.

All these features enable the user faster and easier data handling.

## KEY FEATURES

- Custom heavy duty carry case.
- Appliance Tester and Printer will operate on batteries or mains power.
- Delta 3309BT performs earth bond, insulation, polarity, leakage and RCD tests.
- Zebra ZQ520 allows printing of Direct Thermal test tags.

## aPAT KEY FEATURES

- Complete database of tested appliances in one location.
- Upcoming retest warning on your smart phone or tablet.
- Simple, custom auto-test creation.
- Use smart phone barcode or QR code scanner for quick data entry.
- Remote control of Portable Appliance Tester.
- Easy data entering.
- Projects can be stored to your drop box account.
- Able to send data to main office, before leaving test site.
- Simple to perform test by scanning the QR code containing all information for the specific appliance.
- Overview of testing parameters by scanning QR code.
- Custom logos easily changed and are user configurable.
- Print 'New to Service', 'Fail', or 'Pass' test tags.

## Overview



Includes the new aPAT app



ANDROID



Bluetooth

\*Device shown is optional

**Compatible with most android smart phones and tablets**



Protected by a heavy duty water resistant, air and dust proof safe case

# Delta 3309BT

## Technical Specifications

### Earth continuity (200 mA in to 2.00 Ω)

Range	Resolution	Accuracy
0.00 Ω ÷ 19.99 Ω	0.01 Ω	± (5 % of reading + 3 digits)
20.0 Ω ÷ 199.9 Ω	0.1 Ω	Indication only
200 Ω ÷ 1999 Ω	1 Ω	

### Insulation resistance, Insulation – S resistance (250 Vdc, 500 Vdc)

Range	Resolution	Accuracy
0.00 MΩ ÷ 19.99 MΩ	0.01 MΩ	±(5 % of reading + 3 digits)
20.0 MΩ ÷ 49.9 MΩ	0.1 MΩ	Indication only
50.0 MΩ ÷ 199.9 MΩ	0.1 MΩ	

### Differential leakage current (230 Vac)

Range	Resolution	Accuracy
0.00 mA ÷ 19.99 mA	0.01 mA	±(5 % of reading + 5 digits)

### Touch leakage current (230 Vac)

Range	Resolution	Accuracy
0.00 mA ÷ 7.0 mA	0.01 mA	±(10 % of reading + 5 digits)

### Substitute leakage current (30 Vac)

Range	Resolution	Accuracy
0.00 mA ÷ 9.99 mA	0.01 mA	±(5 % of reading + 3 digits)
10.0 mA ÷ 20.0 mA	0.1 mA	

### (P)RCD testing (10 mA, 15 mA, 30 mA)

Range	Resolution	Accuracy
0 ms ÷ 300 ms (½xIΔN)	0.1 ms	±3 ms
0 ms ÷ 300 ms (IΔN)	0.1 ms	
0 ms ÷ 40 ms (5xIΔN)	0.1 ms	±1 ms

### Power measurement (230 Vac)

Range	Resolution	Accuracy
0.00 kVA ÷ 4.00 kVA	0.01 kVA	±(5 % of reading + 3 digits)

### Voltage TRMS measurement

Range	Resolution	Accuracy
80 ÷ 300 V	1 V	±(2 % of reading + 2 digits)

### Clamp current

Range	Resolution	Accuracy
0.00 mA ÷ 9.99 mA	0.01 mA	±(5 % of reading + 10 digits)
10.0 mA ÷ 99.9 mA	0.1 mA	±(5 % of reading + 5 digits)
100 mA ÷ 999 mA	1 mA	±(5 % of reading + 5 digits)
1.00 A ÷ 9.99 A	0.01 A	±(5 % of reading + 5 digits)
10.0 A ÷ 16.0 A	0.1 A	±(5 % of reading + 5 digits)

### Polarity test (<50 V AC)

## General Data

Power supply voltage:	9 VDC (6x1.5 V battery or accu, size AA), 230 Vac
Operation:	10 h
Working temperature range:	0 °C ÷ 40 °C
Maximum relative humidity:	95 % RH (0 °C ÷ 40 °C), non-condensing
Display:	128 x 64 dots matrix display with backlight
Memory:	1500 memory locations
Communication port:	RS232 (PS/2 connector, female), USB (connector Typ B)
Overvoltage category:	CAT II / 300 V
Protection classification:	Double insulation
Protection degree:	case IP 40 /connectors IP 20

### Ordering information:

Standard set

Part no. 3309-APAT-KIT-MKII



### Included in set:

- Heavy duty carry case
- Custom foam with cut outs
- Zebra ZQ520 Bluetooth printer
- Instrument MI 3309 BT DeltaGT
- Licence for aPAT android app
- IEC cable, 2m, black, 2 pc
- Test lead, black, 1.5m
- Test lead, green, 1.5m
- Test lead, brown, 1.5m
- Crocodile clip, black
- Crocodile clip, green
- Crocodile clip, brown
- Test probe, black
- Test probe, green
- Test probe, brown
- PC software PATLink Pro
- RS232 cable
- USB cable
- Delta instruction manual
- Short instruction manual
- Delta calibration certificate
- NiMH rechargeable batteries, type AA, 6 pcs

### Optional accessories:

Photo	Order No.	Acc. Description
	ProPlus Software Upgrade	Advanced report features and list management
	IEC adaptors	IEC adaptors to perform tests on leads with a figure 8 or tri-clover connections
	Android tab	We can provide a range of different tablets pre configured with aPAT
	Labels	A range of different coloured test tags to suit the Zebra P4T printer
	Tag Cutter	Safely and easily remove old test tags before applying the new tag
	Current Clamp	Current clamp for current measurement

Note! Photographs in this catalogue may slightly differ from the instruments at the time of delivery. Subject to technical change without notice.



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