

AlphaPAT

Downloading Portable Appliance Tester



NEW!

Features:

Single tests or Auto Run sequence tests:

- Earth Bond Test
- Screen Bond Test
- Insulation Resistance
- Substitute Leakage Current
- Differential Leakage Test
- Touch Leakage Test
- Functional Test
- IEC Lead Test
- Clamp Current Test
- Polarity Test

All measurements are True RMS

- **Unique Shortcut Menu**
- Communication with PC, BAR Code Reader, RFID Reader / Writer, or Printer
- **4 Mbit Data Flash Memory**
- **Downloads at 115,000 k baud rate**

Wide application range

- AlphaPAT is a handheld instrument intended for safety testing on electrical portable appliances, information technology equipment and IEC cords.

Easy operation

- Jogger keypad combined with user friendly graphic LCD simplifies adjusting and measuring procedure.

Auto Run sequence mode offers

- **Shortcut Menu** with over 120 types of pre-selected test procedures based on appliance type, class, length of supply cord, maximum current capacity, and other,
- **Custom Menu**, which enables user pre-programmed tests and test sequences.

Dual voltage test capability

Suitable for testing of medical equipment

High accuracy and safety

- The instrument meets or exceeds the demands of the latest safety and appliance testing standards
- High accuracy and the highest protection of the user and tested appliance during test is guaranteed in all working conditions.

Lightweight design

- Assembled in a durable, rugged housing, weighing under 3,5 kg in total, AlphaPAT will become a favourite among technicians performing measurements on-site.

PC Software PAT Link

- Perfect tool for documentation, analysis and printing out test reports.

Measurements and testing in accordance with:

IEC 60335-1	Household and similar electrical appliances
IEC 60598-1	Luminaries
IEC 60745	Hand-held motor operated tools
IEC 60950	Safety of information technology equipment
VDE 701 T1	Repair and modification inspections
VDE 702 T1	Repeat tests of electrical appliances
VDE 0751 T1	Repair modification and testing of medical equipment

Standard set

Order No. **MI 2142**

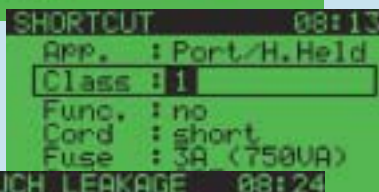


- Instrument AlphaPAT
- Earth Bond / Touch Leakage clip
- Carrying bag
- Mains cable
- Instruction manual
- Declaration of conformity
- Declaration of warranty
- Product verification data

Key Features



- Over 120 pre-selected Autotest procedures
- Customised Autotests
- Single tests
- Storing, downloading and direct printing of test results.



- Simple access to pre-programmed Autotests



- Adjustable limits and user friendly graphic LCD accelerate the measuring procedure



- Clear and easy access to test procedure:
- select the auto test, press START



- Mobile phone type keypad for fast entering of appliance data and date

Connection for Earth leakage current clamp



- Multi - input / output ports:
- Bar Code reader
 - RDIF reader / printer
 - Printer
 - PC



Carrying bag for easier use in the field.

Professional PC SW package, printout facilities

The accompanying professional PC SW package PATLink enables:

- viewing and analysing of measurement results,
- storing of results for documentation,
- operating of test reports,
- printing of test reports.

Also available PC SW package Simply PATs which supports most common PAT testers.



Latest technology for appliance identification

RFID technology

- stores test appliance type procedure, test date, test results, comments in small RFID tags,
- simple RFID reader / writer

Bar Code technology

- stores test procedure,
- printing of Bar code labels (in combination with PC)



Technical Specification

Earth bond test

Test currents: 10 A, 25 A
Measuring range: 0.00 ÷ 19.99 Ω Accuracy: ±(5 % of r. + 5 dig.)

Earth screen test

Test current: 100 mA, 200 mA
Measuring range: 0.00 ÷ 19.99 Ω Accuracy: ±(5 % of r. + 5 dig.)

Insulation test

Test voltages: 250 V DC, 500 V DC
Measuring range: 0.00 ÷ 19.99 MΩ Accuracy: ±(5 % of r. + 5 dig.)

Substitute leakage test

Test voltage: 40 V AC
Measuring range: 0.00 ÷ 19.99 mA Accuracy: ±(5 % of r. + 5 dig.)

Differential leakage test

Measuring range: 0.00 ÷ 19.99 mA Accuracy: ±(5 % of r. + 5 dig.)

Touch leakage test

Measuring range: 0.00 ÷ 1.99 mA Accuracy: ±(5 % of r. + 5 dig.)

Functional test

Current measuring range: 0.00 ÷ 15.99 A Accuracy: ±(5% of r. + 3 dig.)
Power measuring range: 0.00 ÷ 3.69 kVA Accuracy: ±(5% of r. + 3 dig.)

IEC lead test

Test voltage: 50 V DC
Faults: Open, Short, Crossed, Multiple faults

Clamp current (True RMS)

Current range: 0.0 ÷ 99.9 mA Accuracy: ±(10% of r. + 5 dig.)
Current range: 100 mA ÷ 19.99 A Accuracy: ±5% of r.
Resolution 0.1 mA

L-N pretest

Tests between L and N. Pass level is 30 kΩ ±6 kΩ.

Low range PE Leakage test (VDE 0751)

Measuring range: 0.000 mA ÷ 19.99 mA Accuracy: ±(3% + 2 dig.)

General Specification

Mains voltage	230 V AC (+6 %, -10 %), 50 / 60 Hz
Display	Graphic 128 x 64 dots matrix display, backlight
RS232 interface	Baud rate 115,200 bps
Memory	4 Mbit data flash memory
Pollution degree	2
Degree of protection	IP 41
Overvoltage category	CAT II / 300 V
Protection classification	double insulation
Dimensions (w x h x d)	265 x 110 x 185 mm
Mass (without accessories)	3,5 kg
Working temperature range	-10 ÷ +50 °C

Optional accessories

Order No.:



- 240 / 110 V adapter A 1104
- Printer A 1103
- Bar Code reader A 1105
- Bar Code Labels, 200 pcs A 1106
- RFID reader / writer A 1107
- RFID tags, 50 pcs A 1108
- PC SW PAT link with RS 232 cable A 1117
- Current Clamp (other on request) A 1018
- PC SW Simply PATs* A 1118

* will follow later in 2003

 **METREL®** Measurement and Regulation Equipment Manufacturers

Ljubljanska 77, SI-1354 Horjul

Tel.: +386 1 75 58 200; Fax: +386 1 75 49 226

http://www.metrel.si; E-mail: metrel@metrel.si

Distributor: