

# OmegaPAT, BetaPAT

## The most advanced Portable Appliance Testers



### Wide application range

- Enables complete safety verification of a wide range of electrical appliances (**Class I, Class II** and **Class III** appliances).
- Ideally suited for periodical testing, electrical service interventions, and control testing.
- Supports **230 V** and **110 V**.

### Autotest mode for easier and faster testing

- It offers a list of preprogrammed autotest sequences and the possibility to customize your own test procedure.
- Over **4000 Autotests** can be stored into the memory.
- Supports **RFID** and **Barcode labels** for super fast auto-testing.

### 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.

### Easy operation

- High resolution **large graphic display** contains all important information when working with the tester.
- Customized **keypad with jogger** for fast access to all of the functions.
- All the test can be performed without external adapters.
- Fast direct print-out facilities for immediate printing.

### PC Software package PAT Link.

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

### Robust, waterproof case

- The new Metrel case offers **high protection** even if working in arduous conditions.
- All standard **accessories can fit inside** the case.

### The complete analysis of safety:

	Omega	Beta
Visual test	✓	✓
Earth Bond Test	✓	✓
Insulation	✓	✓
Sub Leakage Current	✓	✓
Touch Leakage Current	✓	✓
Differential Leakage Current	✓	✓
Flash Test	✓	
Power Test	✓	✓
Polarity (cord) Test	✓	✓

### 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

### Standard set:

OmegaPAT

Order No. **MI 2140**

BetaPAT

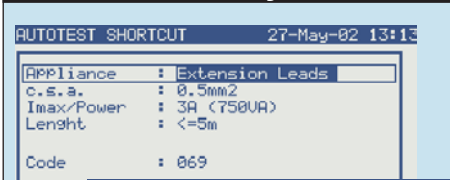
Order No. **MI 2141**



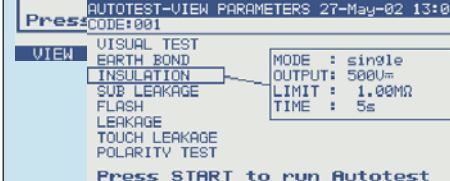
- Instrument OmegaPAT
- Earth Bond Clip
- Flash Test Probe\*
- Instruction Manual
- Production verification data
- Declaration of warranty
- Declaration of conformity
- PC Software PAT Link with RS 232 cable

\* at Omega PAT MI 2140 only


## Key Features




Selection of the appliance type.



Pre-programmed auto test sequences.




Help menus for individual tests.



Clear and easy access to test procedure:

- select the auto test
- press START



Multi - input / output ports:

- Bar code reader
- RFID reader / printer
- Printer
- PC

## Technical Specification

- Earth Bond**  
 Test currents: 100 mA, 4 A, 10 A, 25 A  
 Measuring range: 0.00 ÷ 19.9 Ω Accuracy: ±(5 % + 5 dig.)
- Insulation**  
 Test voltage: 250 V, 500 V  
 Measuring range: 0.000 ÷ 199.9 M Ω Accuracy: ±(5 % + 5 dig.)
- Substitute Leakage**  
 Test voltage: 40 V  
 Measuring range: 0.00 ÷ 1.99 mA Accuracy: ±(5 % + 5 dig.)
- Touch Leakage**  
 Measuring range: 0.00 ÷ 19.99 mA Accuracy: ±(5 % + 5 dig.)
- Leakage**  
 Measuring range: 0.00 ÷ 19.99 mA Accuracy: ±(5 % + 5 dig.)
- Power**  
 Measuring range: 0 ÷ 4 kVA Accuracy: ±(5 % + 5 dig.)
- Flash Test\***  
 Output voltage: 1500 V / 3000 V  
 Measuring range: 0.00 ÷ 2.50 mA Accuracy: ±(5 % + 5 dig.)  
 Trip-out function: yes
- Polarity**  
 Output voltage: 40 V  
 Faults: Open, Short, Crossed, Multiple fault

**Timer:** All functions, 2 s + 180 s

**Limits:** All functions, programmable

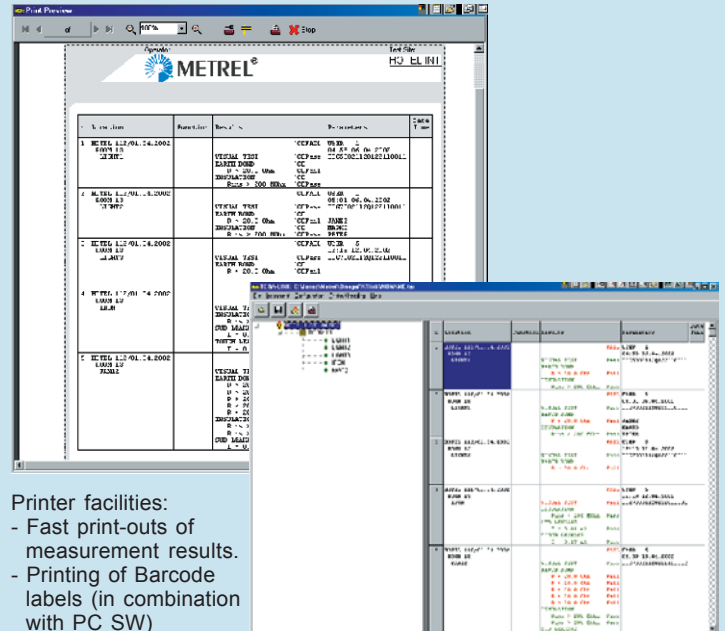
\* Available only at OmegaPAT MI 2140

## Professional PC SW package, printout facilities

The accompanying professional PC SW package PATLink enables:

- viewing and analysing 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

Printer facilities:

- Fast print-outs of measurement results.
- Printing of Barcode labels (in combination with PC SW)



## General Specification

- |  |                                       |
|--|---------------------------------------|
| Mains voltage –230 V system                                  | 230 V (+6 % - 10 %) / 50 or 60 Hz     |
| Mains voltage –115V system                                   | 115 V (+6 % - 10 %) / 50 or 60 Hz     |
| Max. power consumption                                       | 150 VA (without load on TEST SOCKETS) |
| Display  | Graphic, 240 X 128 dots               |
| RS232 interfaces   | Baud rate 115200                      |
| Memories   | 4000 memory locations                 |
| Shock proof plastic / portable case                          |                                       |
| Dimensions (w × h × d)                                       | 335 x 160 x 335 mm                    |
| Mass (without accessories)                                   | 9 kg                                  |
| Pollution degree   | 2                                     |
| Degree of protection (closed)                                | IP 54                                 |
| Overvoltage category   | Cat II / 300 V                        |
| Protection classification                                    | I                                     |
| Working temperature range                                    | - 10 ÷ + 50 °C                        |
| Protection against overload on test sockets:                 | yes                                   |
| Protection against shorted appliances or excessive leakages: | yes                                   |
| Earthing connection detection:                               | yes                                   |

## Optional accessories



- |                             |               |
|-----------------------------|---------------|
| - Printer                   | <b>A 1103</b> |
| - 115 / 230 V adapter       | <b>A 1104</b> |
| - Bar Code reader           | <b>A 1105</b> |
| - Bar Code Labels, 200 pcs  | <b>A 1106</b> |
| - RFID reader / writer      | <b>A 1107</b> |
| - RFID tags, 50 pcs         | <b>A 1108</b> |
| - PC SW package Simply PATs | <b>A 1118</b> |

## Order No.: