

# 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

## 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)



## 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

## 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> |
| - 110 / 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> |
| - OmegaPAT link              | <b>A 1109</b> |
| - PC SW package Simply PATs* | <b>A 1110</b> |

## Order No.:

\* will follow later in 2003