

PAT-2E

Indeks: WMPLPAT2E

Portable appliance tester

LED

IP 40

WiFi

CAT II
300V

Description

The innovative combination of small dimensions (full portability of the device) with advanced measuring systems allow to carry out fully automated measurements for electrical equipment, IEC cables and extension cords (including those with PRCD). The set of tests is performed with one click of START button. Confi guration options of the meter allow you to modify the operation of the device, and thus, tailor it to the needs of the user. In situations, where it is necessary to perform simple and single measurement, without the need to do complex measurement procedure, Pat Sonel allow you to work in a single measurement mode of a given type (ie. Manual). All meters in this series (PAT) also allow you to make basic measurements without external power in emergency situations i.e. in the absence of the power one can easily run a simplifi ed set of test in a battery mode. Small size, weight, and specially designed carrying case of the meter and accessories provide comfort and high mobility. Wireless communication with a printer enables organization of the working site without the hassle of unnecessary cables. Storage and integration of the results in PC software further extends the functionality of the instrument.

MAIN FUNCTIONS PAT-2E

- led test results indication
- quick access to the measurement procedures,
- measurement of protective conductor resistance with the currents: 200 mA,
- measurement of insulation resistance,
- PRCD trip time testing,
- measurement of equivalent, touch and differential leakage current,
- IEC lead test,
- measurement of mains voltage,
- internal results memory,
- automatic measurement range selection,
- compact design, ergonomic soft case,
- works with the program Sonel Reader and Sonel PAT (option).

Technical Specification

Model	PAT-1	PAT-2	**PAT-2E**	PAT-10
Visual inspection	+	+	**+**	+
Earth bond resistance I = 200 mA	+ (0,01… 19,99 Ω)	+ (0,01… 19,99 Ω)	**+ (0,01…19,99 Ω)**	+ (0,01…19,99 Ω)
Earth bond resistance I = 10 A	-	-	**-**	+ (0,001…1,99 Ω)
Insulation resistance U = 250 V	-	-	**+ (0,01…99,9 MΩ)**	+ (0,01…99,9 MΩ)
Insulation resistance U = 500 V	+ (0,01… 99,9 MΩ)	+ (0,01… 99,9 MΩ)	**+ (0,01…99,9 MΩ)**	+ (0,01…99,9 MΩ)
Alternative	+	+		

leakage current	(0,01...19,9 mA)	(0,01...19,9 mA)	**+ (0,01...19,9 mA)**	+ (0,01...19,9 mA)
Touch leakage current	-	-	**+ (0,001...4,999 mA)**	+ (0,001... 4,999 mA)
Differential leakage current	-	-	**+ (0,10...19,9 mA)**	+ (0,10...19,9 mA)
IEC cord test (R_{ISO}, R_{PE}, Polarity)	+	+	**+**	+
PRCD (trip time for $I_{\Delta n}$: x1/x5; 0° and 180°)	-	-	**10 mA, 30 mA**	10 mA, 30 mA
Built-in Memory	-	+	**+**	+
WiFi	-	+	**+**	+
Cooperation with printer	-	+	**+**	+
Data transmition to PC	+	+	**+**	+
Power supply	battery powered (+ can measure in charging mode)	battery powered (+ can measure in charging mode)	**50 Hz (or 60Hz) U nominal. 220V.230V.240V / battery powered**	50 Hz (or 60Hz) U nominal. 220V.230V.240V / battery powered

Measurement Category: CAT II 300V	+	+	**+**	+
Weight [kg] / size [cm]	ok. 1.40 kg / 200 mm x 180 mm x 77 mm	ok. 1.40 kg / 200 mm x 180 mm x 77 mm	**ok. 1.55 kg / 200 mm x 180 mm x 77 mm**	ok. 1.55 kg / 200 mm x 180 mm x 77 mm

PAT CAN BE USED TO TEST THE EQUIPMENT PERFORMANCE IN ACCORDANCE WITH STANDARDS:

- PEN 60745-1 Hand-held motor-operated electric tools. Safety. General requirements
- EN 61029 Safety of transportable motor-operated electric tools - General requirements
- EN 60335-1 Household and similar electrical appliances -Safety - Part 1: General requirements
- EN 60950 Safety of information technology equipment (IT Equipment) AS/NZS 3760:2010 In-service safety inspection and testing of electrical equipment
- VDE 0404-1 Prüf - und Messeinrichtungen zum Prüfen der elektrischen Sicherheit von elektrischen Geräten. Teil 1: Allgemeine Anforderungen
- VDE 0404-2 Prüf - und Messeinrichtungen zum Prüfen der elektrischen Sicherheit von elektrischen Geräten. Teil 2: Prüfeinrichtungen für Prüfungen nach Instandsetzung, Änderung oder für Wiederholungsprüfungen
- VDE 0701-0702 Prüfung nach Instandsetzung, Änderung elektrischer Geräte. Wiederholungsprüfung elektrischer Geräte. Allgemeine Anforderungen für die elektrische Sicherheit