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CAT II 300 V

IEC

61557







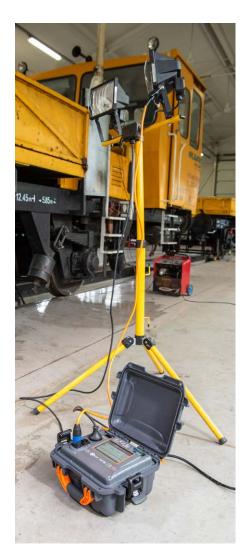


Safety guardian on the post

Features

- Extensive measuring system enables:
 - protective conductor resistance measurement using current:
 - » PAT-80 | 200 mA,
 - » PAT-85 | 200 mA, 10 A, 25 A,
 - measurement of insulation resistance using voltage:
 - » PAT-80 | 250 V, 500 V,
 - » PAT-85 | 100 V, 250 V, 500 V, 1000 V,
 - measurement of substitute, differential and touch leakage current,
 - functional test,
 - test of RCD and PRCD switches,
 - ...and much more.
- Intuitive user interface.
- Cooperation with a label printer and QR code scanner.
- Robust, compact housing.
- Operation time at rechargeable battery power supply: up to 1 hour.

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Application

The device is used wherever safety is the most important thing. Ideally suited to situations where it is necessary to check welders, power tools, three-phase devices and household appliances.

Capabilities

Thanks to the extensive measuring part, the device enables comprehensive checking of electrical devices. The touch screen and autoprocedures section make testing quick and efficient.

The meter cooperates with a label printer and QR scanner, which greatly facilitates the recordkeeping of tools. The following printouts are available:

- · initial measurement report,
- QR code, where information on performed tests and the parameters of the tested device are saved.

These data can be read and added to the meter memory using the optional QR code scanner.

The whole picture is complemented by a compact and durable housing. It provides instrument protection during both measurements and transport.



Memory

The memory has a tree structure. For each device tested it contains its description, location of measurements, customer data and registration number.



Communication

The meter provides many modes of transmission of measurement results: via USB, LAN and WiFi. In addition, it is possible to upload the results to a USB stick.

Dedicated **PAT Analysis** software allows for data management and also reports preparation - in several versions, depending on the user's needs. In addition, it is possible to use the **PAT Server** solution. This system allows you to work in many modes, including:

- smooth data management,
- · online upload to server,
- · work through a web browser,
- work in task ordering mode,
- storing copies of data on the server.

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Measurement functions	Range	Resolution	Accuracy ±(% m.v. + digits)
Resistance of protective conductor (PE) PAT-80 I = 200 mA PAT-85 I = 200 mA / 10 A / 25 A	up to 19.99 Ω	from 1 mΩ	from ±(3% m.v. + 4 digits)
Insulation resistance PAT-80 U _{ISO} = 250 V / 500 V PAT-85 U _{ISO} = 100 V / 250 V / 500 V / 1000 V	up to 599.9 MΩ	from 1 kΩ	±(5% m.v. + 8 digits)
Current (clamp measurement)	up to 24.9 A	from 1 mA	±(5% m.v. + 5 digits)
Visual test		✓	
Continuity check of protective conductor (PE)		✓	
Insulation resistance measurement at three points		✓	
IEC cable test		√	
Functional test			
Apparent power S	up to 3.99 kVA	from 1 VA	±(5% m.v. + 3 digits)
Active power P	up to 3.99 kW	from 1 W	±(5% m.v. + 3 digits)
Reactive power Q	up to 3.99 kvar	from 1 var	±(5% m.v. + 3 digits)
Power Factor (PF)	up to 1.00	0.01	±(10% m.v. + 5 digits)
Current consumption for power measurement	up to 15.99 A	0.01 A	±(2% m.v. + 3 digits)
THD for voltage and current	up to 99.9%	0.1%	±(5% m.v. + 5 digits)
Cosφ	up to 1.0	0.1	±(5% m.v. + 5 digits)
Leakage current measurement			
PE leakage current and differential leakage current	up to 19.9 mA	0.01 mA	±(5% m.v. + 2 digits)
Substitute leakage current	up to 19.9 mA	0.01 mA	±(5% m.v. + 2 digits)
Touch leakage current	up to 4.999 mA	0.001 mA	±(5% m.v. + 3 digits)
RCD and PRCD switch test			
Measurement of RCD parameters according to IEC 61557	up to 300 ms	1 ms	±(2% m.v. + 2 digits)
Measurement of RCD tripping current I_A for sinusoidal residual current (AC type)	up to 30 mA	0.1 mA	±5% I _{Δn}
Measurement of power network parameters			
Voltage	up to 265.0 V	0.1 V	±(2% m.v. + 2 digits)
Frequency	up to 55.0 Hz	0.1 Hz	±(2% m.v. + 2 digits)

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Technical specification

Technical data

Technical data	TFT 5.6" 800 x 480 px	
Power supply	195265 V, 50 / 60 Hz mains	
i once supply	NiMH 7.2 V / 2 Ah rechargeable battery	
Load current	max. 16 A (230 V)	
Safety and work conditions		
Measuring category according to EN 61010	II 300 V	
Ingress protection	IP40	
Type of insulation according to EN 61010-1 and IEC 61557	double	
Dimensions	318 x 257 x 152 mm	
Weight	ca. 5 kg	
Operating temperature	-10+50°C	
Storage temperature	-20+70°C	
Humidity	2080%	
Nominal temperature	+20+25°C	
Reference humidity	40%60%	
Altitude a.s.l.	<2000 m	
Memory and communication		
Memory of measurement results	min. 4 GB	
Data transmission	USB 2.0, Wi-Fi, LAN	
Other information		
Measurement standards	EN 50678	
	EN 50699	
Outlier standard development do to the U.S.	ISO 9001	
Quality standard - development, design and production	ISO 14001	
	ISO 45001	
The product meets the EMC (emission for industrial	EN 61326-1	
environment) requirements according to standards	EN 61326-2-2	

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Standard accessories



Power cord

WAPRZZAS1



L-11 carrying case

WAFUTL11



2x 5x20 mm, 16 A fuse

WAPOZB16PAT



Test lead 1.8 m (crocodile clip)

WAPRZ1X80RKS



USB cable

WAPRZUSB

Optional accessories



Three-phase socket adapter 16 A

5P WAADAPAT16P

5P switchable WAADAPAT16PR

WAADAPAT16C

4P switchable WAADAPAT16CPR



Three-phase socket adapter 32 A

5P WAADAPAT32P

5P switchable WAADAPAT32PR

WAADAPAT32C

4P switchable WAADAPAT32CPR



3P industrial socket adapter

16 A WAADAPAT16F1

32 A WAADAPAT32F1



PAT-3F-PE adapter for leakage current measurement

WAADAPAT3FPE



Pin probe 1 kV CAT III/1000 V **CAT IV/600 V** (banana socket) red

WASONREOGB1



Pin probe 1 kV CAT III/1000 V **CAT IV/600 V** (banana socket) blue

WASONBUOGB1



Kelvin clip 1 kV 25 A

WAKROKELK06



High-current pin probe (banana sockets)

WASONSPGB1



IEC/Uni Schuko adapter for extension cords testing

WAADAPATIEC2



IEC 60320 C6 to C13 adapter

WAADAPATIEC1



Double-wire test lead

1.5 m (PAT plug/banana plugs) WAPRZ1X5DZBB

2.1 m (IEC C13/banana plugs) WAPRZ2X1DZIECB



C-3 current clamp (Ø 52 mm)

WACEGC30KR



Barcode scanner (USB)

WAADACK2D



Report / barcode printer (USB, portable)

WAADAD2



Report / barcode printer (Wi-Fi / D3, portable)

WAADAD3



Sonel PAT Analysis

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WAPROSONPAT3



Accessories for SATO printer

Tape / paper (glued) WANAKD2

Ink tape WANAKD2BAR



Accessories for Brother printer

Ink tape WANAKD3



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