

# ALL IN ONE SAFETYTEST 1IT+

Smart, handy and amazingly versatile. The perfect servicetester for measuring according to DIN VDE 0100-600, DIN VDE 0105:100, DIN VDE 0113-1, DIN EN 50678 (DIN VDE 0701), DIN EN 50699 (DIN VDE 0702) and DIN EN 62353 (DIN VDE 0751) .

Ground-breaking control via iOS and Android with default or individual testing sequences.

Item number: 0041390

Compatible  
with



## Technical Highlights

- ✓ Ergonomic and compact Design
- ✓ Testing according to:
  - ✓ DIN VDE 0100:600 (IEC60364.6)
  - ✓ DIN VDE 0105:100,
  - ✓ DIN VDE 0113-1 (EN 60204-1)
  - ✓ DIN EN 50678 (DIN VDE 0701)/DIN EN 50699 (DIN VDE 0702)
  - ✓ DIN EN 62353 (DIN VDE 0751)
- ✓ Innovative app-control for iOS and Android, one device for installations and electric devices
- ✓ Integrated magnetic hold for tablet, also suitable for smartphones
- ✓ Default testing sequences for installations devices, machines and objects (work equipment like ladders, shelves etc.)
- ✓ Individual creation of testing sequences for installations, devices, machines and objects
- ✓ Low impedance measurement
- ✓ Insulation measurement
- ✓ Innovative measurement of loop impedance and network impedance in one measurement process behind RCD
- ✓ Measurement of residual current, leakage current and phase current
- ✓ Touch voltage, phase voltage and phase sequence
- ✓ RCD testing of types A/B/B+/EV/F
- ✓ Innovative simulation of RCD frequency up to 1Khz for types F/B/B+
- ✓ 3-pole earth measurement
- ✓ Measurement of residual voltage
- ✓ Measurements in for different Networks: TN, TT and IT
- ✓ CAT III 600 V/CAT IV 300 V
- ✓ Bluetooth LE (Low Energy)
- ✓ Fast polarity reversal
- ✓ Simple documentation with photos

## Features

- The compact and multifunctional test device **SAFETYTEST 1IT+** is made for first and repeated inspection, as well as for inspection after repair
- Tree structures for circuits, devices, objects and locations with a simple and revolutionary way to interlink them
- Simple synchronisation with Cloud-Master Server-solution
- Individual management of user rights via Cloud-Master Server-solution
- Individual configurable customer access for documentations, inspection lists and other evaluations in Cloud-Master
- Complex visual inspections can easily be built and illustrated via procedure manager: ladders, hospital beds, fire doors, shelves, fire extinguishers, and many more
- On basis of standing data a classification of limit value will be done for an easier testing and evaluation according to the applying norm
- Charging of integrated Li-Ion battery via Schuko-plug 230V
- USB-C connection can be used for charging of tablet/smartphone
- Individual procedures allow ideal adjusted routines for every day business (optional)
- Protocol-editor allows adjustment of protocol templates (optional)

## Produkt standard

- DIN EN 61557-16/EN61010
- DIN EN 61326
- CAT III 600 V/CAT IV 300 V

## Size, Weight

- 250 mm x 260 mm x 80 mm
- ca. 1,5 kg

## Technical Properties

- Mains: AC 230 V ± 10 %
- Operating-ambient temperature: 5 °C ... 40 °C
- IP 20

## Integrated accessories

- Measuring leads 4 mm red, black, ca. 2 m
- Measuring lead Schuko ca. 1,4 m
- Triple lead red, blue, green
- Soft bag for device & accessories
- probe with 4mm socket red, blue and green, CATIV/CATII
- clamps red, blue and green, CATIII 1000 V
- Certificate of calibration

## Optional accessories

- Label tested
- Brush probes
- Measuring leads
- AC differential current clamp **DI40**
- Measuring lead drum
- Measuring lance 2 m for e.g. ceiling lamps
- **Calibration adapter KA1** SAFETYTEST 3PA
- VLS-Adapter
- VCEE 16/32/63
- TCEE 16/32/63/125
- SAFETYTEST 2PT

## Software/App

- **Remote MasterApp** (Android and iOS) Individual test sequences with unique operating concept for efficient testing and fast documentation. **Cloud-Master server licences** enable central access and simple rights and role management.
- Depending on the version, with additional functions
  - **Basic version, art. no.: 0039360**, free of charge, with remote control, camera documentation and report generation
  - **(Cloud) Pro version, art. no.: (0055540) 0039361**, additionally with database function, import/export function and protocol designer
  - **(Cloud) Comfort version, art. no.: (0055550) 0039362**, additionally with procedure manager and objects
  - **(Cloud) Comfort+ version, art. no.: (0055560) 0039363**, additionally with catalogue management of master data

Measurements (5 % fault of value + 1 % fault of range)	
Protective conductor resistance, Low impedance measuring	0,000 Ω ... 10,00 MΩ   3 % o.v. + 10 Digits I = 10 - 200 mA DC   U0 = 7 - 9 V
interface	<ul style="list-style-type: none"> <li>• USB-C for charging tablet/smartphone while device is charging on 230 V</li> <li>• Bluetooth LE/SPP</li> </ul>
DIN EN 50678/DIN EN 50699   CAT II 300V	
integrated Residual current deactivation	Differential current > ca. 20 mA
Leakage current	0,00 mA ... 20,00 mA U0 = 230 V AC (max. 2,5 mA), (internal resistance 1 kΩ)
Differential current according to DIN EN 61557-14 for correct evaluation of harmonic components	0,00 mA ... 40,00 mA AC (limited by residual current deactivation on 20mA) <b>with differential current clamp (option)</b> DI40: 0,00 mA ... 40 mA AC
Touch current	0,000 mA ... 4,000 mA
Operating voltage	85 - 265 V AC
Protective conductor controlling	Voltage N-PE < 30 V
Power measurement	0 W ... 4 000 W
Voltage measurement probe - probe	0 V ... 440 V AC/DC
Current measurement	0,00 A ... 16,00 A <b>With current clamp (option)</b> DI40: 0,00 A ... 63,00 A AC
Insulation resistance	0,1 MΩ ... 1000 MΩ   3% o.v. + 10 Digits Ik < 1,3 mA Un = 50 V < 50MΩ = 100 V < 100 MΩ = 250 V < 250 MΩ = 500 V < 500 MΩ = 1.000 V < 1 GΩ
DIN VDE 0100   CAT III 600 V   CAT IV 300 V	
PE resistance	3-pol, Un = 50 V, 25 V, 0,5 Ω ... 49,9 kΩ   3 % o.v. + 5 Digits 45 Hz - 65 Hz
Residual voltage measurement	0 - 150 V/0 - 30 s   max. 600 V
Voltage measurement	L-N, L-L, L-PE 0,0 - 600 V AC   5% o.v. + 5 Digits

Measurements (5 % fault of value + 1 % fault of range)					
DIN VDE 0100   CAT III 600V   CAT IV 300V					
$Z_{L/N, L/L, L/PE}$	L - N, L - L, L - PE 0,15 - 1000 Ω   5 % o.v. + 5 Digits Ik(400V) < 2666A; Ik(230V) < 1533A 45 Hz - 65 Hz				
	<b>L - N:</b> = 0,15 - 1000 Ω   5 % o.v. + 5 Digits Ik(400 V) < 2666 A; Ik(230 V) < 1533 A 45 Hz - 65 Hz <b>L - PE 15 mA:</b> = 0,45 - 1000 Ω   5 % o.v. + 10 Digits Ik(400 V) < 888 A; Ik(230 V) < 511 A 45 Hz - 65 Hz <b>L - PE 5 mA:</b> = 0,45 - 1000 Ω   5 % o.v. + 30 Digits Ik(400 V) < 888 A; Ik(230 V) < 511 A 45 Hz - 65 Hz				
$Z_{L/PE (RCD)}$	<b>L - N:</b> = 0,15 - 1000 Ω   5 % o.v. + 5 Digits Ik(400 V) < 2666 A; Ik(230 V) < 1533 A 45 Hz - 65 Hz <b>L - PE 15 mA:</b> = 0,45 - 1000 Ω   5 % o.v. + 10 Digits Ik(400 V) < 888 A; Ik(230 V) < 511 A 45 Hz - 65 Hz <b>L - PE 5 mA:</b> = 0,45 - 1000 Ω   5 % o.v. + 30 Digits Ik(400 V) < 888 A; Ik(230 V) < 511 A 45 Hz - 65 Hz				
Frequency	15 - 1000 Hz				
Rotating field	100 - 600 V R/L, phase-sequence test				
RCD DIN VDE 0100   CAT III 600 V   CAT IV 300 V					
RCD-Type	AC/A/B/B+/EV/F/MI				
RCD-form	general/selective				
Touch voltage	25, 50 V				
Phase	0°/180°				
RCD 3-pol		Time test		Current time	2in1-Test
	Accuracy	2 % + 3 dig		5 % + 3 dig	5 % + 3 dig
	Current type	In/mA	T/ms	In/mA	In/mA
	AC	5 - 500	300/500	3 - 500	3 - 500
	AC-HW	5 - 500	300/500	3 - 500	3 - 500
	DC	5 - 1000 3-10	300/500 10000	3 - 1000	3 - 1000
	AC+DC	5 - 1000	300/500	3 - 1000	3 - 1000
	AC-HF	5 - 1000 250/1000 Hz	300/500	3 - 1000 250/1000 Hz	3 - 1000 250/1000 Hz
AC-LF	5 - 1000 10/100 Hz	300/500	3 - 1000 10/100 Hz	3 - 1000 10/100 Hz	
RCD 2-pol*	AC	5 - 500	300/500	3 - 500	3 - 500
	AC-HW	5 - 200	300/500	3 - 200	3 - 200

Calibration and service  
<https://kp.safetytest.eu>



Manuals  
<https://doku.safetytest.eu/>



Help? Contact us  
<https://ssp.safetytest.eu>

