

The international standard for voltage testers  
DIN EN 61243-3 (VDE 0682-401):2015 increases

safety for work under voltage

Your work as an expert requires safe testing. Therefore, you should not make any compromises concerning safety! Voltage testers which are used on electrical systems of up to 1000 V have to comply with the standard DIN EN 61243-3 (VDE 0682-401):2015. The standard creates uniform testing and safety criteria on an international level and remarkably which concentrates on user safety.

The generation of DUSPOL® voltage testers exceeds the demands of the standards concerning both the protection category for housings (IP 65) and overvoltage protection (CAT IV 600 V). The nominal voltage range has been increased to a minimum of 1000 V AC/DC in order to ensure safe testing of increased system voltages of industrial applications, photovoltaic systems and wind power plants as well as of hybrid automotive engineering.



CAT IV 600 V

CAT IV 600 V

CAT IV 600 V

**DUSPOL® voltage testers**

The original!

Product safety at the highest level:

- safe voltage testing up to 1000 V AC/DC
- direct display without actuating a push-button (high-impedance testing)
- load connection via push-button (low-impedance testing)
- battery-independent voltage indication from 50 V AC/DC on
- vibration alert in the test handle
- robust round housing with rubberized gripping surface for outdoor use (protection category IP 65)
- tested and approved in compliance with the current DIN EN 61243-3 (VDE 0682-401):2015 standard



tested and approved



All DUSPOL® voltage testers are equipped with a direct display system without loading the test point. In case of need, a load circuit can be connected via a push-button which suppresses inductive and capacitive reactive voltages. Thus, it is possible to clearly distinguish between high-energy and low-energy electric circuits.

A vibrating motor can be activated additionally. The vibrating power of this motor increases proportionally to the applied voltage. This is an additional indication of voltage being applied.

The DUSPOL® voltage testers underlines once again the BENNING expertise in the field of testing, measuring and safety technology. With a DUSPOL® voltage tester you acquire an innovative product which has been tested and approved by the independent VDE Test and Certification Institute.

### The generation **DUSPOL®** voltage testers

- safe voltage testing up to 1000 V AC/DC
- load connection with vibration alert
- intentional tripping of a 30 mA RCD
- phase sequence test in a three-phase mains
- single-pole external conductor test (phase)

#### Additionally for **DUSPOL® expert, DUSPOL® digital:**

- acoustic continuity test with loud test buzzer and visual indication by means of yellow LED
- measuring point illumination by means of white high-power LED
- phase sequence test by means of green LED (left/right)
- detector for non-contact localization of cable breaks on exposed and live lines

#### Additionally for **DUSPOL® digital:**

- voltage testing up to 1000 V AC TRUE RMS/1200 V DC
- TRUE RMS measuring method
- low-volt range: 1.0 V to 11.9 V
- frequency indication up to 1000 Hz
- resistance measurement up to 300 k $\Omega$
- conducting-state voltage measurement of diodes
- automatic LC display illumination by means of a light sensor

#### Optional **DUSPOL®** stand-by case:



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(see page 18)

### The new **PROFIPOL®+** voltage tester with additional functions and convenient design

- slim and compact design
- test handle lock for one-hand operation on sockets and for safe storage
- indicating steps from 12 V to 690 V AC/DC, fully operational even with batteries being exhausted or removed
- reduced testing current without RCD tripping
- acoustic continuity test with loud buzzer and visual indication by means of yellow LED
- single-pole external conductor test (phase) and polarity test
- non-contact cable break detector (yellow LED)



PROFIPOL®+  
CAT III 600 V

### Voltage and Continuity Tester

	<b>DUSPOL® analog</b>	<b>DUSPOL® expert</b>	<b>DUSPOL® digital</b>	<b>PROFIPOL®+</b>
<b>indication</b>	plunger system (illuminated)/LED	LED	LED/LCD (illuminated)	LED
<b>voltage range</b>	12 – 1000 V AC/DC	12 – 1000 V AC/DC	1.0 – 1000 V AC/1200 V DC	12 – 690 V AC/DC
<b>frequency range</b>	–	–	1 – 1000 Hz	–
<b>acoustic and visual continuity test</b>	–	buzzer + yellow LED 0 – 100 k $\Omega$	buzzer + yellow LED 0 – 100 k $\Omega$	buzzer + yellow LED 0 – 100 k $\Omega$
<b>diode test</b>	–	conducting-state/ non-conducting direction	0.3 – 2.0 V	–
<b>resistance measuring range</b>	–	–	0.1 k $\Omega$ – 300 k $\Omega$	–
<b>phase-sequence test</b>	LCD (“R” symbol)	green LEDs (right/left)	green LEDs (right/left)	–
<b>single-pole outer conductor test</b>	LCD (“R” symbol)	red “lightning” LED	red “lightning” LED	red “lightning” LED
<b>polarity test</b>	LED (+/-)	LED (+/-)	LCD (+/-)	LED (+/-)
<b>cable break detector</b>	–	yellow LED (flashing)	yellow LED (flashing)	yellow LED
<b>load connection via push button</b>	I <sub>s</sub> = 550 mA (1000 V) 30 mA RCD trip	I <sub>s</sub> = 550 mA (1000 V) 30 mA RCD trip	I <sub>s</sub> = 550 mA (1000 V) 30 mA RCD trip	–
<b>vibrating alarm</b>	yes	yes	yes	–
<b>measuring point illumination</b>	–	white LED	white LED	–
<b>protection class</b>	IP 65	IP 65	IP 65	IP 54
<b>item no.</b>	050261	050262	050263	020023