



Top-class test equipment *DUSPOL® voltage testers – the testers with the VDE mark of conformity*

The international standard for voltage testers IEC/EN 61243-3 (DIN VDE 0682-401) 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 IEC/EN 61243-3 (DIN VDE 0682-401). The standard creates uniform testing and safety criteria on an international level and remarkably which concentrates on user safety.

An essential safety aspect of the standard is that voltage testers must allow a direct indication of the voltage status "presence of voltage" or "absence of voltage" without actuation of any push-buttons or switches in DC and AC mains. Voltage testers with load connection (operating current > AC 3.5 mA/DC 10 mA) must be equipped with a push-button for activation of the load circuit at each test handle.



CAT IV 500 V

DUSPOL® digital LC

CAT IV 500 V

DUSPOL® analog plus

CAT IV 500 V

DUSPOL® expert

CAT IV 1000 V

DUSPOL® 1000
(available from early 2011)

CAT IV 500 V

DUSPOL® combi

CAT IV 500 V

DUSPOL® compact

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 underline 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 test equipment *DUSPOL® voltage testers*

Product safety on the highest level:

- direct displaying without pressing a push-button (high-impedance test)
- load connection via push-buttons (low-impedance test)
- continuity check via buzzer and LED or LCD respectively
- vibrating alert in the test handle
- measuring point illumination

Top-class test equipment

DUSPOL® digital LC, for highest precision

Top-class test equipment

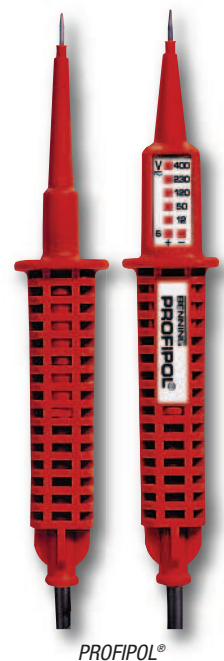
DUSPOL® voltage testers

- tested and approved according to the international standard IEC/EN 61243-3 (DIN VDE 0682-401)
- high-impedance voltage test without actuating a push-button
- connectable load circuit, no measuring errors due to irritating capacitive and inductive voltages by means of intended load connection via push buttons
- intended release of a 30 mA RCD safety switch
- acoustic continuity check via buzzer and LED/LCD
- phase-sequence indication with arrows “↻”
- safe single-pole phase test
- precise illumination of the measuring point
- shock-resistant, dust-proof and splash-proof housing (protection class IP 64)
- automatically background lighting via light sensor
- safe voltage testing for voltages of up to 1000 V AC/DC (DUSPOL® 1000)



Voltage and Continuity Tester

	DUSPOL® digital LC	DUSPOL® analog plus	DUSPOL® expert	DUSPOL® 1000	DUSPOL® combi	DUSPOL® compact	PROFIPOL®
indication	LED/LCD	plunger system/LED	LED/LCD	LED/LCD	LED/LCD	LED	LED
indication steps	6 – 750 V	12 – 690 V	12 – 690 V	12 – 1000 V	12 – 690 V	12 – 690 V	6 – 400 V
continuity test	buzzer + LCD 200 kΩ	–	buzzer + LED 108 kΩ	–	LCD 600 kΩ	–	–
phase-sequence test	yes/LCD	yes/LCD	yes/LCD	yes/LCD	–	–	–
single-pole phase test	yes/LCD	yes/LCD	yes/LCD	yes/LCD	yes/LCD	–	–
polarity test	yes/LCD	yes/LED	yes/LED	yes/LED	yes/LED	yes/LED	yes/LED
load connection via push buttons	I _s = 200 mA (750 V _{DC})	I _s = 250 mA (750 V _{DC})	I _s = 200 mA (750 V _{DC})	I _s = 370 mA (1000 V _{DC})	I _s = 200 mA (750 V _{DC})	I _s = 200 mA (750 V _{DC})	–
30 mA RCD triggering via push button	yes	yes	yes	yes	yes	yes	–
vibrating alarm	yes	yes	yes	yes	yes	–	–
measuring point illumination	yes/LED	–	yes/LED	–	–	–	–
protection class	IP 64	IP 64	IP 64	IP 64	IP 64	IP 64	IP 65
item no.	050258	050257	050253	050260	050254	050251	020022



PROFIPOL®