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 voltage testers are divided according in voltage class A (up to AC 500 V/DC 750 V) and voltage class B (up to AC 1000 V/DC 1500 V). 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 500 V
DUSPOL® master

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 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 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

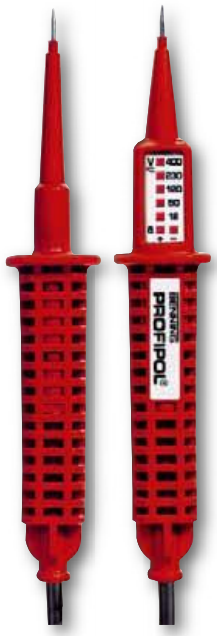
Top-class test equipment
DUSPOL® voltage testers

- tested and approved according to the international standard IEC/EN 61243-3 (DIN VDE 0682-401), voltage class B
- 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 FI 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



Voltage and Continuity Tester

	DUSPOL® digital LC	*DUSPOL® analog plus*	*DUSPOL® expert*	*DUSPOL® master*	*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 - 690 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 = 200 mA (750 V_{DC})	I_S = 200 mA (750 V_{DC})	I_S = 200 mA (750 V_{DC})	–
30 mA FI 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	050252	050254	050251	020022



PROFIPOL®