

DUSPOL analog plus/expert/digital LC Voltage Tester

3-349-578-03
1/11.09

- Voltage testing
- Phase testing
- Polarity check
- Phase sequence test
- Continuity test (DUSPOL expert/digital LC only)
- DATA HOLD storage of test results (DUSPOL digital LC only)
- Load connection via pushbutton for the suppression of reactive voltage
- Vibrating alert
- Protection class: IP 64



Application

The instruments are rated for DC and AC voltage tests in a voltage range from 12 V to AC 690 V/ DC 750 V. In the event of DC voltage, it is possible to perform polarity tests and in the event of AC voltage, it is also possible to perform phase tests with these instruments. They show the phase sequence of a 3-phase current system, provided the neutral point is grounded.

Applicable Regulations and Standards

IEC 61010-1/EN 61010-1/ VDE 0411-1	Safety requirements for electrical equipment for measurement, control and laboratory use – General requirements
DIN EN 61243-3 (VDE 0682 Part 401):1999-09	2-pole voltage testers up to 1000 V
EN 60529 VDE 0470 Part 1	Test instruments and test procedures Protection provided by enclosures (IP code)
DIN EN 61326-1 VDE 0843-20-1	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements

Electric Safety

Overvoltage Category CAT IV 500 V / CAT III 690 V

Electromagnetic Compatibility EMC

Interference Emission /
Interference Immunity EN 61326

Mechanical Design

Protection Housing IP 64
per DIN VDE 0470 Part 1/EN 60529
Extract from table on the meaning of IP codes

IP XY (1 st digit X)	Protection against foreign object entry	IP XY (2 nd digit Y)	Protection against the penetration of water
6	dust-tight	4	splashing water

Weight approx. 200 g
Connector cable approx. 900 mm

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Characteristic Values

	DUSPOL digital LC	DUSPOL analog plus	DUSPOL expert
Nominal Voltage Range	12 ... 690 V	12 ... 690 V	12 ... 690 V
Display	LCD/LED	LED/moving coil	LED
Indication Steps	LED: 12/24/50/120/230/400/690 V LCD: 6 ... 750 V	LED: 12/24/50/120/230/400/500/690 V	LED: 12/24/50/120/230/400/690 V
Polarity Indication	LCD: + / -	LED: + / -	LED: + / -
Phase Sequence Test	LCD	LCD	LCD
Load Connection via Pushbutton	$I_S = 200 \text{ mA}$ (750 V _{DC})	$I_S = 250 \text{ mA}$ (750 V _{DC})	$I_S = 200 \text{ mA}$ (750 V _{DC})
Internal Resistance	PTC 15 k Ω \geq 360 k Ω	220 k Ω	220 k Ω
Continuity Test	0 ... 200 k Ω	-	0 ... 108 k Ω
Maximum Permissible On-time	30 s	up to 500 V: 30 s up to 750 V: 10 s	30 s

Ambient Conditions

Operating and Storage
Temperatures -10 °C ... 55 °C
Relative Humidity 20 ... 96 %

Power Supply

Battery 2 x micro, LR03/ AAA (3 V)
(DUSPOL expert/digital LC only)

Order Information

Designation	Type	Article Number
Voltage and Continuity Tester 6 ... 690 V	DUSPOL digital LC	M611A
Voltage Tester 12 ... 690 V	DUSPOL analog plus	M611B
Voltage and Continuity Tester 12 ... 690 V	DUSPOL expert	M611C

For additional information on accessories, please refer to

- the relevant datasheet or our „Measuring Instruments and Testers“ catalogue
- our website www.gossenmetrawatt.com