

DUSPOL M611x

- EXPERT & DIGITAL VOLTAGE TESTERS

FEATURES

- Voltage testing
- Phase sequence test
- Phase testing
- Polarity check
- Cable fracture detector
- Continuity test
- Load connection via vibration motor
 - for the suppression of reactive voltage
 - for the discharge of capacitors
 - for the triggering of 10/30 mA RCCBs
- Vibrating alert: the integrated motor with unbalance signals activity during load testing by generating vibrations in the tester handle
- Illumination of measuring points
- Rugged housing design with rubberized handle surface
- Impact resistant, dust-tight and splashing water protected housing (IP 65)

APPLICATION

The instruments are rated for DC and AC voltage tests in a voltage range from 12 V to 1000 V. With DC voltage, it is possible to perform polarity tests and with 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.

ELECTRIC SAFETY

Measuring category: CAT IV 600 V / CAT III 1000 V

ELECTROMAGNETIC COMPATIBILITY (CEM)

Interference emission/Interference immunity: EN 61326 Part 1

MECHANICAL DESIGN

Protection Housing: IP 65 per DIN VDE 0470 Part 1/EN 60529

Weight: approx. 250 g

Connector cable: approx. 1000 mm

AMBIENT CONDITIONS

Operating and storage temperatures: -15 °C ... +55 °C

Relative humidity: 20 ... 96 % (climatic category N)



M611E Expert

M611F Digital

APPLICABLE REGULATIONS AND STANDARDS

IEC 61010-1/ DIN EN 61010-1/ VDE 0411-1	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1 General requirements
DIN EN 61243-3 VDE 0682-401:2011-02	Live working - Voltage detectors – Part 3: Two-pole low-voltage type (IEC 61243-3:2009); German version EN 61243-3:2010
DIN EN 60529 VDE 0470-1	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

DUSPOL EXPERT M611x VOLTAGE TESTERS



Cat No.	M611E	M611F
NOMINAL VOLTAGE RANGE	LED: 12 ... 1000 V AC/DC	LCD: 6 ... 1000 V AC TRUE RMS / 1200 V DC Low voltage range: 1.0 ... 11.9 V AC
NOMINAL FREQUENCY RANGE	0 ... 500 Hz	0 ... 1000 Hz
RESOLUTION	-	0.1 V to 198.9 V / 1 V as from 199 V
VOLTAGE MEASUREMENT ACCURACY	Un ±15% (max. display error)	±2.5% rdg. + 3 digits
DISPLAY STAGE	LED: 12/24/50/120/230/400/690/ 1000 V AC/DC	LED: 50/120/230/400 V AC/DC
CONTINUITY TEST	Yellow LED + buzzer: Optical 0 ... 100 kΩ	Yellow LED + buzzer: Optical 0 ... 100 kΩ
CABLE FRACTURE DETECTOR	Yellow LED blinks/fades out	Yellow LED blinks/fades out
RESISTANCE MEASUREMENT	-	LCD: 0.1 kΩ ... 300 kΩ
RESISTANCE MEASUREMENT ACCURACY	-	±5% rdg. + 5 digits
DIODE TEST	-	LCD: 0.3 V ... 2 V
PHASE SEQUENCE TEST	Green LED (≥ Un 230 V 50/60 Hz)	Green LED (≥ Un 230 V 50/60 Hz)
FREQUENCY MEASUREMENT	-	15 Hz ... 1,000 Hz
FREQUENCY MEASUREMENT ACCURACY	-	±2.5% rdg. + 1 digit
PHASE (CONDUCTOR) TEST	Red LED (≥ Un 230 V 50/60 Hz)	Red LED (≥ Un 230 V 50/60 Hz)
POLARITY CHECK	LED: + / -	LCD: + / -
DIRECT DISPLAY WITHOUT PRESSING A PUSHBUTTON	High-impedance test	High-impedance test
LOAD CONNECTION VIA PUSHBUTTON	Low-voltage test (connection of vibration motor)	Low-voltage test (connection of vibration motor)
DELIBERATE TRIGGERING OF RCCB	Testing of phase conductor (phase) towards PE (earth)	Testing of phase conductor (phase) towards PE (earth)
ILLUMINATION	Measuring point	Measuring point and display
INTERNAL RESISTANCE OF MEASURING CIRCUIT	175 kΩ	175 kΩ
MAXIMUM PERMISSIBLE ON-TIME	30 s, followed by 240 s inactivity	30 s, followed by 240 s inactivity
POWER SUPPLY	2 x 1.5 V micro, LR03/ AAA	2 x 1.5 V micro, LR03/ AAA

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