

MultiSafe DSP 3 - 12M

Voltage detector



MultiSafe DSP 3 - 12M

The MultiSafe DSP 3 – 12 M is a versatile testing tool for all applications in industry and power engineering - multifunctional, precise, reliable.

Special version for voltage detection on screened cable connectors.

- Precise indication of voltage up to 1200 V AC / 1500 V DC
- Phase, phase sequence and continuity test up to 2 MΩ, frequency up to 2 kHz
- Highest degree of safety provided by protective resistors in both test prods
- Large illuminated display
- Protection category IP65

DESITEK

Member of DEHN group

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Tietzsch

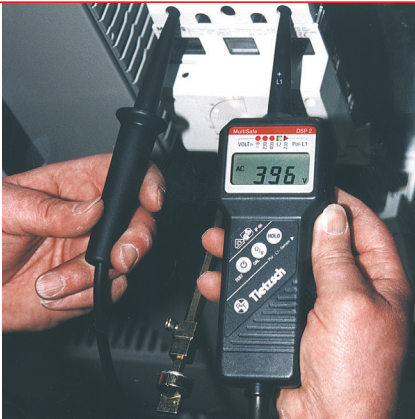


EN/IEC 61243-3

MultiSafe DSP 3 - 12M

Art. No. 84301/S1

Voltage detector



Test functions

Fast and safe measuring and testing of:

- Direct and alternating current
- Resistance / continuity
- Polarity
- Phase / phase sequence grounded
- Frequency

Easy operation

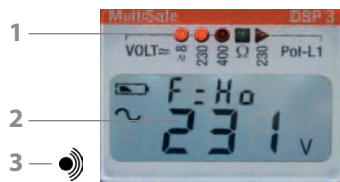
Fully automated test procedures obviate operating errors:

- At 40 V the MultiSafe switches on, or from continuity over to voltage testing
- Selection of correct measurement range
- Type of voltage and polarity are detected
- Assignable function key for: HOLD, phase sequence unearthed, frequency measurement, light on/off
- Self-test per keypress „DATA HOLD“

Three readout systems

Unambiguous and rapid recognition of function and result:

1. Round red flares for voltage, green square symbol for resistance and red triangle for phase and phase sequence
2. The display shows precise values in V or kΩ as well as voltage type and polarity.
3. An acoustic signal indicates continuity up to 10 kΩ.



Robust design

High quality elements guarantee function and safety under extreme conditions: :

- Impact resistant plastic casing and break-proof display cover
- Dust and water proof (IP65, approved for operation in outdoor areas)
- Spring mounted test contacts
- Twin insulated PUR control cable

Highest level of safety

- Protective resistors located directly behind both test electrodes protect user and device especially against dangerous voltage peaks and energy from external sources.
- CAT IV - highest overvoltage category, device is suitable for operation in all areas of power engineering.
- The MultiSafe has been tested and certified by VDE

Wide range of safety accessories

- Test prods for test objects that are difficult to access
- Adapter for test lines with 4 mm standard plug extensions for tests at overhead lines
- Bags
- Tightly screwable test prods for voltages up to 5000 V



Technical data

Two-pole voltage-continuity tester MultiSafe DSP 3-12 M tested and certified in accordance with EN/IEC 61243-3 (VDE 0682 part 401)

Nominal voltage

8 ... 1000 V AC / 1500 V DC (according to VDE: automatic switch on/over at ≥ 40 V)

Frequency

0...2.000 Hz

Input resistance

12,1 MΩ protective resistors directly behind both test electrodes

Current peak value

83 μA at 1000 V

Indication of voltage/phase/phase sequence

3 red LEDs for voltage 50, 120, 1000 V 3½-digit LCD for V-measurement value and type of voltage -/~ and additional functions red LED-triangle for phase and phase sequence

Indication of resistance/continuity/diodes

green LED for continuity up to 2000 kΩ and diodes LCD 3½-digit for Ω-measurement value buzzer signal, ≤ 10 kΩ

Measuring ranges - voltage

DC: 0,1...9,9/10,0...99,9/100...1500 V (3% + 4 D)
AC: 2,5...99,9/100...1200 V (TRMS)(3% + 4 D)
(TRMS 15...1800 Hz)

Measuring ranges - resistance

0...2 MΩ (5% + 2 D)

Measuring ranges - frequency

15 ... 1999 Hz

Surge voltage strength

> 12 kV case insulation to user
> 12 kV switching mechanism between test prods tested with 14,8 kV 1,2/50 μs surge

Overvoltage category

Insulation test voltage
6 kV unit inspection of case and line
CAT IV in accordance with IEC 60664-1 (VDE 0110)

Operating temperature

-10°C ... +55°C

Power supply

9 V-block IEC 6 LR61 power saving circuit, automatic switch-off after 30 s without measuring indication of battery condition

Casing

ABS, display cover PC impact resistant, test electro-des spring-mounted, contact electrode (Pol-L1-sensor)

Protection category

IP 65, device can be used in moist environments

Test cable

PUR control cable, 1000 V, 1 m

Dimensions / weight

240 x 62 x 39 mm (device with display) / approx. 270 g