

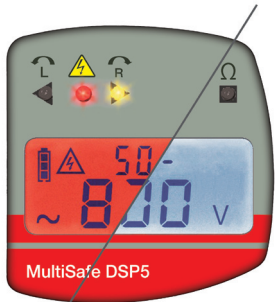
MultiSafe DSP 5
Highest precision and safety up to 1200 V AC / 1500 V DC



NEW



DSP 5ST - Slide tip with adjustable electrode length 4 mm / 16 mm



Colour change of the LCD lighting during voltage

Der MultiSafe DSP 5 is a safe testing device for all applications in power engineering - easy handling, high-precision, multifunctional and reliable.

- Precise indication of voltage from 150 mV up to 1200 V AC 30 mV up to 1500 V DC
- Extended measuring range for low- and battery-voltage up to 19,99 V
- Phase, phase sequence tester (possible with gloves)
- Fast continuity test 0,01 kΩ up to 1000 kΩ
- Easy operation, large illuminated display with two colour display
- Additional load to determine interference voltages and RCD-tripping (not DSP 5B)

EN/IEC 61243-3
CAT IV 1000 V



Many functions
Fast and safe measuring and testing of:
- Direct and alternating voltage (TRMS)
- Resistance / continuity
- Polarity
- Phase
- Phase sequence grounded from 165 up to 1200 V / 50 Hz
- Phase sequence ungrounded (IT power grids)
- Frequency measurement
- Monitored additional load / RCD-tripping (push button on the back)*
- Additional load for start-up tests of electronic electricity meters*
- Front spot lightning
- Integrated self-test by buttonpress
- One-hand operation for testing sockets
- Adjustable electrode length*
- Belt clip for easy transport
* Type-dependent, see table



Spotlight and illuminated LCD for dark environments



extremely robust for use in all weather conditions

Highest level of safety

- Large protective resistors protect the user and device especially against dangerous voltage peaks and energy from external sources, CAT IV 1000 V.
- Large two-colour display for hazardous voltages > 50 V AC / 120 V DC, and LED-warning which works without battery
- The MultiSafe has been tested and certified by VDE



One-hand operation for testing sockets

Safety accessories

- Accessories are not included in scope of delivery
- Pin prods for measuring points that are difficult to reach
- Adapter for test lines with 4 mm plug
- Extensions for overhead lines

Type	Article no.	Phase- / phase sequence test	Phase sequence test for IT power grids	Continuity test with value	Additional load 30 mA-RCD-tripping	4 mm slide tip
DSP 5B 0,15 - 1200 V AC 0,03 - 1500 V DC	84502	■	■	■		
DSP 5 0,15 - 1200 V AC 0,03 - 1500 V DC	84501	■	■	■	■	
DSP 5ST 0,15 - 1200 V AC 0,03 - 1500 V DC	84503	■	■	■	■	■

Technical data Two-pole voltage- and continuity tester MultiSafe DSP 5 / DSP 5B / DSP 5ST tested and certified by VDE in accordance with EN/IEC 61243-3 (VDE 0682 part 401)	
Nominal voltage	DSP 5 / DSP 5ST 12 ... 1000 V AC / 1200 V DC DSP 5B 12 ... 1000 V AC / 1500 V DC (according to VDE: automatic switch on / over >12 V and additional load up to max. 1200 V AC / DC)
Display range	0,15 V ... 1200 V AC 0,03 V ... 1500 V DC
Frequency	15 Hz ... 10 kHz < 500 V, 15 Hz ... 2 kHz > 500 V
Indication of voltage/phase/phase sequence	Red LED for voltage, green for continuity, yellow for phase sequence, LC display, two color backlighted 7-segment-letters, 2 lines, 0 ... 1999 Digit
Measuring ranges - voltage	AC: 0,10...19,99/20,0...99,9/100...1200 V TRMS 15... 500 Hz (1,5% + 3 D) sineff > 500 Hz (15% + 3 D) DC: 0,01...19,99/20,0...99,9/100...1500 (1,5% + 3 D)
Indication of resistance/continuity/diodes	Green LED for continuity up to 1000 kΩ and diodes, LCD 3½-digit for kΩ-measurement value, buzzer ≤ 10,00 kΩ
Measuring range - resistance	0,01 ... 1000 kΩ (5 % + 4 D)
Measuring ranges - frequency	15,0 ... 99,9 Hz / 100 ... 9999 Hz
Input resistance	412 kΩ at 50 V / 50 Hz 200 kΩ at 1000 V AC, 720 kΩ at 1000 V DC
Current peak value	5 mA at 1000 V direct < 300 mA at 1000 V switched (not for DSP 5B)
On-time ton / recover-time toff	at 230 V / 400 V unlimited at UN 2 min ton / 2 min toff
Overvoltage category	CAT IV 1000 V in accordance with IEC 60664-1 (VDE 0110)
Surge voltage strength	>19,2 kV case insulation to user >12 kV circuit between test prods
Insulation test voltage	6 kV unit inspection of case and line
Operating temperature	-15°C ... + 55°C
Power supply	2 x 1,5 V AAA energy- saving circuit, automatic switch-off after 30 s without measuring multi-stage battery indicator
Standards	DSP 5B / DSP 5: EN/IEC 61243-3 (VDE 0682 Teil 401) DSP 5ST: in addition to UK HSE GS38
Casing	ABS-PC/ TPE , display cover PC impact resistant, handgrip to clip in, belt clip
Protection category	IP 65, device can be used in moist environments
Connection line	PUR sheathed cable, 1000 V, 1 m, with protective cap
Repeated inspection / calibration	Recommended every 6 years
Dimensions / Weight	275 x 89 x 35 mm (handgrip and display part) 275 x 60 x 35 mm (display part) 270 g
Made in Germany	