

## MultiSafe DSP 3HS11

Two-pole high voltage tester up to 11 kV AC / 16 kV DC



The MultiSafe DSP 3HS11 is a two-pole high voltage tester with secure LED signal and exact indication of the voltage value.

- Precise indication of voltages up to 11 V AC / 16 V DC
- Highest degree of safety provided by protective resistors within the GRP- tube
- Surge voltage strength > 300 kV
- Self-test for checking protective resistors and function

AC/DC  
11 kV

$\Omega$   
Test

Volt

Hz

CE

IP 65

indoor  
outdoor

PE

no PE

### Application

The MultiSafe DSP 3HS11 is a two-pole voltage tester for alternating voltages up to 11 kV and direct voltages up to 16 kV. It is particularly suitable to detect voltage quickly and securely at capacitor banks and links of converters, as well as at feeders for railway systems.

Voltage is signalled by three red LEDs and the value is indicated digital on the LCD.

These systems offer double safe indication.

### Safety

Due to moulded protective resistors the MultiSafe DSP 3HS11 has a tested surge voltage strength of > 300 kV.

The device is designed on the basis of the MultiSafe DSP, which is certified by VDE in accordance with EN/IEC 61243-3 VDE. Maximum level of safety is provided by moulded high-tension test probes as well as an obligatory self-test function.

### Easy operation

Fully automated test procedures obviate operating errors:

- Self-test indicates with green LED + "rdy"
- Voltage is indicated by red LEDs, the LCD and an acoustic signal
- Voltage, frequency, battery condition, type of voltage and polarity are simultaneously indicated on the large LCD



### Three readout systems

Unambiguous and rapid recognition of function and result:

- round red flares for voltage, green square symbol for standby and absence of voltage
- the display shows precise values in V or kV as well as voltage type and polarity
- acoustic signal indicates voltage > 50 V AC / 120 V DC

### 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)
- Twin insulated PUR control cable, corrugated tube for additional mechanical protection
- High-tension test probes made of glass fibre-reinforced plastic with moulded resistor decade

### Test electrodes

With the exchangeable test electrodes the MultiSafe DSP 3HS11 is multifunctional applicable.



Standard:  
Semicircular (i) for conductor rails and test holes  
Alternative:  
Peaked with thread (G) for special applications,  
Bifurcated (Y) for fixed ball points or wires

### Accessories



Solid box for transportation and storage



Bag with ring bolt and shoulder belt

### Technical data

Two-pole high voltage tester MultiSafe DSP 3HS11

Nominal voltage range	50 ... 11000 V AC / 16000 V DC
Frequency	0 ... 500 Hz
Input resistance	55,8 MΩ
Measurement current	0,29 mA bei 16000 V DC
Surge voltage strength	> 300 kV (VDE test report available)
Indicator group	I and III
Display	1. three red LEDs for voltage > 50 V and green LED for standby 2. two-line LC-display with backlight for indication of voltage, type of voltage and battery condition 3. Acoustic signal at > 50 V AC / 120 V DC
Measurement range / limit deviation	50 ... 1000 V DC ± 2,5% + 5 digits 50 ... 1000 V AC ± 5% + 10 digits 1,01 ... 16,00 (16,50) kV DC ± 2,5% + 5 digits 1,01 ... 11,00 (12,00) kV AC ± 5% + 10 digits
On-time	15 min, auto-off when tension-free
Construction	for indoor and outdoor installations IP 65, device can be used in moist environments
Operating temperature	-10°C ... + 55°C
Self-test	function and protective resistors obligatory before indication of measurement results
Power supply	9 V block IEC 6 LR61 alkali-manganese indication of battery condition
Design	<ul style="list-style-type: none"> <li>• Two-pole voltage tester with firmly attached high-tension test probes made of GRP with moulded resistor decades, approx. 27,9 MΩ each probe</li> <li>• Impact resistant, dust proof plastic casing with unbreakable display cover, protection category IP 65</li> <li>• Twin insulated PUR control cable</li> <li>• connection line additionally protected by corrugated tube</li> </ul>
Standards	EN/IEC 61243-2 high voltage tester EN/IEC 60071 surge voltage strength further applied standards: EN/IEC 61010 and VDE 0105-100 (further details see risk analysis)
Test label	of the last checking on the device Repeated examination spätestens alle 6 Jahre
Dimensions/weight	1,0 kg / approx. 1150 x 200 x 60 mm Length of test probes 790 mm Case (accessory) 6,9 kg 1242 x 272 x 122 mm

Article number	Type / Label
89304	MultiSafe DSP 3HS11-*
84330	Solid box 124 x 27 x 12 cm
84331	Bag 111 x 28 cm
* shape of electrodes: -i, -Y, -G, please specify	