



MultiSafe DSP 3HS11

High voltage tester 11 / 16 kV



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 with illuminated display
- Highest level of safety through protective resistors moulded within the glass fibre tube
- Surge voltage strength of 60 kV
- Self-test for testing the protective resistors and function
- Robust casing water and dust proof - **IP 65**

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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 at capacitor banks and links of converters, as well as at feeders for railway systems et cetera, quickly and securely.

Voltage is signalled by 3 LEDs and the value is indicated digital on the LCD.

Both systems operate independently and therefore offer double safe indication.

Safety

Through moulded protective resistors the MultiSafe DSP 3HS11 has a tested surge voltage strength of 60 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 securely attached high-tension test probes as well as an obligatory self-test function.

Easy operation

Fully automated test procedures obviate operating errors:

- At 50 V the MultiSafe switches on and warns against hazardous voltages
- Self-test enquiry after switch-on
- The measurement result is indicated in the adequate range
- Type of voltage and polarity are detected
- Storage of measurement result „DATA HOLD“



Three readout systems

Unambiguous and rapid recognition of function and result:

- Round red flares for voltage, green square symbol for readiness and zero potential
- The display shows precise values in V or kV as well as voltage type and polarity
- An acoustic signal signifies voltage > 1000 V

Robust design

High quality elements guarantee function and safety under extreme conditions:

- Impact-proof plastic housing and break-proof display cover
- Dust and water proof (IP65, approved for operation in outdoor areas)
- Twin insulated rubber hose with additional mechanical protection of corrugated hose
- High tension test probes made of fibre glass with moulded resistor decade

Accessories

Through exchangeable test electrodes the DSP 3 HS11 can be adjusted for tests at overhead lines, conductor rails or test adapter.



Electrodes selectively:
round (i), peaked with thread (G) or forked (Y)



Solid case for transportation and secure storage



Bag with shoulder belt and suspension eye

Technical data

Two-pole high voltage tester MultiSafe DSP 3HS11

Nominal voltage range 50 ... 11000 V AC / 16000 V DC
Frequency range 0 ... 500 Hz
Input resistance 15 MΩ
Measurement current 1,07 mA bei 16000 V DC
Display two redundant systems 1. LEDs 50 V, 120 V, 1000 V and readiness 2. two-line LC Display with screen backlight Automatic starting at 50 V or more Detection of operating mode +/-/~ Acoustic signal at 1000 V or more
On-time 15 min
Operating temperatures -10°C ... +55°
Self-test Function and protective resistors Obligatory before indication of measurement result
Energy source 9 V block IEC 6LR61 alkali manganese Indication of battery status
Measurement range / limiting deviation 10 ... 1000 V DC ± 2,5% + 5 digits 15 ... 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
Design Two-pole voltage tester Basic device DSP 3: Impact-proof, dust proof plastic housing with break-proof display cover, protection category IP 65, CAT IV, connection line H07RN-F Extension DSP 3HS11: Two securely connected high tension test probes made of GRP with moulded resistor decade, approx. 7,5 MΩ each prod connection line additionally insulated through flexible plastic corrugated hose
Standards Basic device DSP 3 in accordance to EN/IEC 61243-3 Extension DSP3HS11 Surge voltage 60 kV in accordance to EN/IEC 60071 further applied standards: EN/IEC 61243-2 and EN/IEC 61010
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

Technische Änderungen vorbehalten 02-2010. Made in Germany

