

# MultiSafe DSP HS5

Two-pole high voltage tester up to 5 kV AC / 7 kV DC



The MultiSafe DSP HS5 is a two-pole high voltage tester with LED signals and precise indication of voltage level and frequency.

- Precise indication of voltage up to 5 kV AC / 7 kV DC
- Highest degree of safety provided by moulded protective resistors within the GRP-tube
- Surge voltage strength >100 kV
- Self-test for checking protective resistors and function





### Application

The MultiSafe DSP HS5 is a two-pole voltage tester for alternating voltages up to 5 kV and direct voltages up to 7 kV.

It is particularly suitable to detect voltage quickly and securely at capacitor banks and links of converters, etc. Voltage level, polarity and frequency are indicated by several systems.

### Safety

Due to moulded protective resistors the MultiSafe DSP HS5 has a tested surge voltage strength of > 100 kV. The obligatory self-test assures function before voltage testing.

### Easy operation

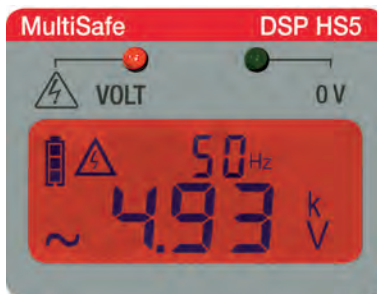
Easy operation due to one-button control. The result is clearly indicated by LEDs and on the display.

### Three readout systems

- LEDs red for voltage, green for standby and absence of voltage
- Display for voltage level, frequency, as well as type of voltage and polarity
- Acoustic signal indicates voltage > 50 V AC / 120 V DC



Indication of absence of voltage



With voltage the LCD backlight changes color to red

### Robust design

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

- Impact resistant plastic casing with break-proof display cover
- Dust- and waterproof (IP 65)
- Twin insulated PUR control cable
- High-tension probes made of glass fibre-reinforced plastic with moulded resistor decade

### Accessories

(Accessories are not included in scope of delivery)

- Test electrodes



i: Semicircular standard electrode for conductor rails and test holes

Other shapes of electrodes on request:

G: Peaked with thread M5 for special applications

Y: Bifurcated for fixed ball points or overhead lines



Bag with shoulder belt



Solid box with aluminium frame

### Technical data

Two-pole high voltage tester  
MultiSafe DSP HS5

Nominal voltage range

50 ... 5000 V AC / 7000 V DC

Frequency

0 ... 500 Hz

Input resistance

2,7 MΩ

Measurement current

> 2,6 mA with 7000 V DC

Surge voltage strength

> 100 kV (VDE test report available)

Indicator group

I and III

Display

1. Red LED for voltage > 50 V AC / 120 V DC  
green LED for standby / absence of voltage
2. Two-line LCD with backlight white /red for indication of voltage, frequency, 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

only for indoor installations

Operating temperature

-15°C ... + 55°C

Self-test

testing function and protective resistors obligatory before indication of measurement results

Power supply

9 V block IEC 6LR61/6LF22 / 6LP3146 alkali-manganese, multi-stage battery indicator

Design

- Two-pole voltage tester with two firmly attached high-tension probes made of GRP with moulded resistor decades, approx. 1,35 MΩ each probe
- Impact resistant, dust-proof plastic casing with unbreakable display cover, protection category IP 65
- Twin insulated PUR control cable

Standards

EN/IEC 61243-2 high voltage tester

EN/IEC 60071 surge voltage strength

further applied standards:

EN/IEC 61010 and EN 50110-1 (VDE 0105-1) (further details see risk analysis)

Test label

date of the next examination on the sticker repeated inspection at least every 6 years

Dimensions / Weight

550 x 70 x 70 mm / 500 g

Art.-no. Type / Label

89300 MultiSafe DSP HS5-\*

\* shape of electrodes: -Y, -G, please specify

Accessories on page 33