

MultiSafe DSP TT3 / TT36

Telescope voltage tester for catenary lines up to 3 or 36 kV AC/DC



Variable locking
for testing heights up to 8,2 m

With the MultiSafe DSP TT3 / TT36 voltages up to 3 / 36 kV against ground can be tested quickly and safely. Additionally, voltage level and frequency are indicated on the two-line display.

- For testing heights up to 6,2 m or 8,2 m variable height adjustment
- Precise indication of voltages up to 3 / 36 V AC/DC
- Highest degree of safety provided by moulded protective resistors GRP-tube, surge voltage strength > 100 kV



Application

The MultiSafe DSP TT3 / TT36 is a two-pole high voltage tester for alternating and direct voltages up to 3 or 36 kV against ground.

It is particularly suitable to detect voltages quickly and securely at capacitor banks and rail converter systems.

Voltage is signalled by 3 red LEDs and the value is indicated digital on the LCD. Simultaneously, the upper display line indicates the mains frequency.

Design

High-quality elements guarantee function and safety:

- Telescopic tube with variable height adjustment 1,75 - 5,2 m / 7,2 m extension length
- Moulded resistor decade within GRP-tube
- Dust- and waterproof display part made of ABS with unbreakable display cover
- Twin insulated line with clamp for secure connection to rail

Safety

Maximum safety is provided by high surge voltage strength, integrated self-test and the certified display part.

The MultiSafe DSP TT3 / TT36 is equipped with moulded protective resistors with surge voltage strength of > 100 kV.



Simultaneous indication of mains frequency and voltage at the large, illuminated display

Easy operation

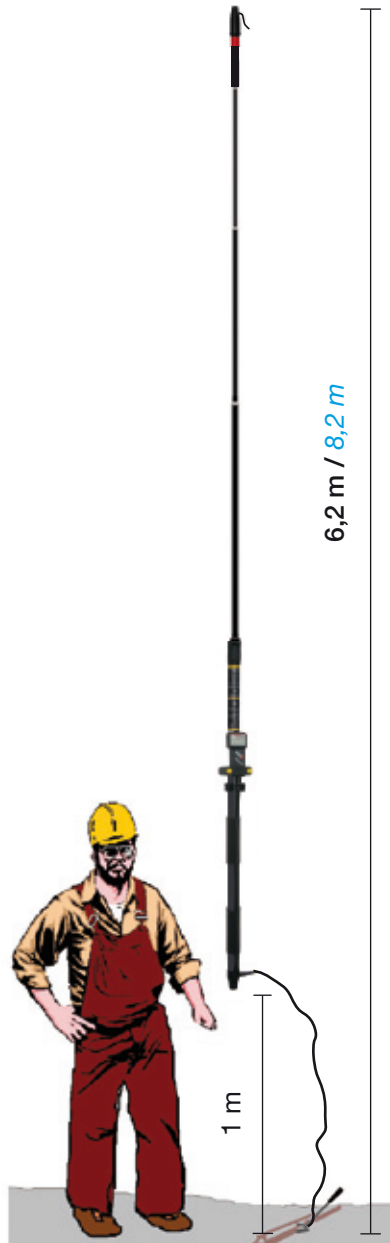
Due to clear signals and only one push-button operating errors are prevented:

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

Accessories

(Accessories are not included in scope of delivery)

- Bag with ring bolt and shoulder belt 176 x 24 cm
- Wall holder



Art.-no.	Type / Label
89307	MultiSafe DSP TT3M (magnet)
89337	MultiSafe DSP TT3K (clamp)
89309	MultiSafe DSP TT36 (clamp)
89310	MultiSafe DSP TT36-8m (clamp)

Technical data

Two-pole telescope high voltage tester
MultiSafe DSP TT3 **DSP TT36**

Nominal voltage range	
AC / DC 50 ... 3000 V	36000 V
Display	
1. Three red LEDs for voltage > 50 V green LED for standby	
2. Two-line LCD with backlight for indication of voltage, frequency, type of voltage and battery condition	
3. Acoustic signal > 50 V AC / 120 V DC	
Indicator group	
I and III	
Measurement ranges / Accuracy	
40 ... 1000 V AC/DC ± 5% + 10 digits resolution 1 V	
1,0 ... 3,00 kV AC/DC ± 5% + 10 digits resolution 10 V	
10 ... 36 kV AC/DC ± 5% + 10 digits resolution 100 V	
automatic range switching	
Frequency range	
0 ... 200 Hz	
Input resistance	
1664 kΩ	42 MΩ
Current peak value	
< 1,8 mA at 3000 V	< 0,9 mA at 36000 V
On-time	
5 min	15 minutes
auto-off when voltage-free	
Self-test	
testing function, grounding and protective resistors	
Surge voltage strength	
> 100 kV	> 150 kV
Construction	
for indoor and outdoor installations IP 65, device can be used in moist environments	
Operating temperature	
-15°C ... + 55°C	
Power supply	
9 V block IEC 6LR61 / 6LF22 / 6LP3146 alkali-manganese, multi-stage battery indicator	
Design	
• Two-pole voltage tester with fixed connection to ground	
• 4-piece telescope high-tension test probe, made of double-walled GRP-tube with moulded resistor decade approx. 1540 kΩ approx. 120 MΩ	
• Display part made of impact resistant, dust-proof plastic casing IP 65 with unbreakable display cover	
• 3 m PUR high voltage cable with clamp for rail foot	
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	
1740 x 120 x 110 mm	
run-out length up to 5,2 m	5,2 m / 7,2 m
for testing heights up to 6,2 m	6,2 m / 8,2 m
device incl. line and magnet 2,8 kg	
device with clamp for the rail foot 3,1 kg	3,1 kg
TT36K-8m ca. 4,2 kg	