

## MultiSafe TT 3

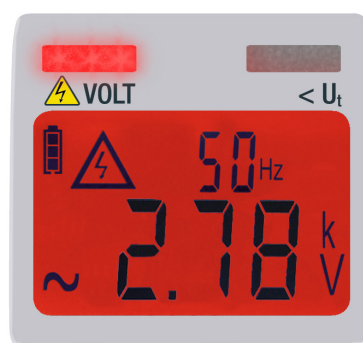
Telescope voltage tester for catenary lines up to 3 kV AC/DC



Variable locking for test heights up to 6,2 m



360 ° LED light strip red / green



Colour change of the display at voltage

With the MultiSafe TT 3, voltages up to 3 kV against ground can be tested safely and quickly.

In addition to the voltage level, the frequency is displayed on the two-line display.

- For test heights up to 6,2 m variable height adjustment
- Precise indication of voltages up to 3 kV AC and DC
- Highest degree of safety provided by moulded protective resistor in the GRP-tube, surge voltage strength > 100 kV



### Application

The MultiSafe TT 3 is a two-pole high voltage tester for alternating and direct voltages up to 3 kV against ground. It is particularly suitable for quickly and reliably determining the voltages between the overhead line and the rail of railway systems and voltages in switchgears.



Test at overhead line

### Design

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

- Telescopic tube with variable height adjustment 6,2 m test height
- Moulded resistor decade made of GRP-tube
- Dust- and waterproof display part made of ABS with unbreakable display cover
- Twin insulated line with universal clamp for secure grounding

### Safety

- Surge voltage strength > 100 kV due to moulded protective resistors
- Integrated self-test to test the protective resistors, function and connection to earth
- Redundant test system with continuous self-monitoring for indicating the absence of voltage

### Easy operation

The one-button operation facilitates the application. The result is clearly indicated on the display and by LEDs.

### Three display-systems

- LEDs red for voltage, green for standby and absence of voltage
- Display for voltage value, frequency as well as voltage type and polarity
- Acoustic signal for voltage >  $U_t$

### Accessories

Accessories are not included in scope of delivery

- Bag with ring bolt and shoulder belt
- Wall holder
- Robust case



Bag

Wall holder

Case



Fast self-test for device function and contact between terminal and rail  
MultiSafe TT 3K - with rail foot clamp

alternative:



MultiSafe TT 3M - with magnet for rails

### Technical data

Two-pole high voltage tester  
MultiSafe TT 36

Nominal voltage range	AC / DC 50 ... 3000 V
Display range	40 ... 3000 V AC / DC
Display	1. red LEDs for voltage > $U_t$ green LED for standby / absence of voltage 2. two-line LCD with backlight for indication of voltage, frequency, type of voltage and battery status 3. acoustic signal > $U_t$
Indicator group	I and III
Max. interference voltage $U_t$ (change green / red)	400 V
Measurement ranges / Accuracy	40 ... 1000 V AC/DC $\pm 5\%$ + 10 digits resolution 1 V 1,00 ... 3,00 kV AC/DC $\pm 5\%$ + 10 digits resolution 10 V
automatic range switching	
Frequency range	0 ... 200 Hz
Input resistance	1664 K $\Omega$
Current peak value	< 1,8 mA at 3000 V
On-time	5 min at maximum nominal voltage
Self-test	Testing function, grounding and protective resistors
Surge voltage strength	> 100 kV (test report available)
Construction	For indoor and outdoor installations IP 65, device can be used in moist environments
Operating temperature	-15°C ... + 55°C
Power supply	6 x AA 1,5 V multi-stage battery indicator
Design	<ul style="list-style-type: none"> <li>• Two-pole voltage tester with connection to ground by clamp or magnet</li> <li>• 4-piece telescope high voltage test probe, made of double-walled GRP-tube with moulded resistor decade approx. 1540 K<math>\Omega</math></li> <li>• Display part made of impact resistant, dustproof plastic casing IP 65 with unbreakable display cover</li> <li>• 1,8 m PUR high voltage cable with clamp or magnet</li> </ul>
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 test height up to 6,2 m device incl. line and magnet 2,8 kg device incl. clamp for railfoot 3,1kg

Type	Article No.	Earth contact / line	Telescope	Self-test	LC display for voltage and frequency	For indoor installations	For outdoor installations
TT 3M 50-3 000V	89307	Magnet	6 m	■	■	■	■
TT 3K 50-3 000V	89337	Railfoot clamp		■	■	■	■
TT 3UK 50-3 000V	89347	Universal clamp		■	■	■	■