

MultiSafe TT 1

Telescope voltage tester for light rail systems

NEW



Variable locking



Display unit with
360 ° LED light strip red / green and
two colour LC-display

The MultiSafe DSP TT1 is a safe equipment for fast voltage testing at overhead lines of light rail systems.

- Precise indication of voltage up to 1000 V AC / 1500 V DC
- Testing height up to 6,2 m variable height adjustment
- Highest degree of safety provided by protective resistors within the test prod, maximum current below 3,2 mA
- Easy operation with one single push button, self-test for testing function, protective resistors and proper ground connection
- Interchangeable test line with magnet or clamp



Application

The MultiSafe TT 1 is a two-pole telescope voltage tester for voltages up to 1000 V AC / 1500 V DC.

It is particularly suitable to detect quickly and securely voltage at catenary lines of light rail systems.



Direct indication of voltage on the LCD and warning by LED and acoustic signal.

Easy operation

Easy test sequence in three steps:

1. Place the contact magnet on the grounded rail or screw the contact clamp on the rail foot
2. Perform the selftest
3. Pull out the telescope for length and insert the electrode into the overhead line.

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 $> U_t$

Robust design

High-quality elements guarantee function and safety:

- 4-part GRP-telescope tube with variable height adjustment
- Display part made of impact resistant plastic with break-proof display cover
- Dust- and waterproof
- Solid PUR hose cable with contact magnet or clamp, easily exchangeable

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 1K - with rail foot clamp

alternatively:



MultiSafe TT 1M - with magnet for rail

Technical data

MultiSafe TT 1, telescope voltage tester for light railway overhead lines

Nominal voltage range	50 ... 1000 V AC / 1500 V DC
Display range	30 ... 1000 V AC / 1500 V DC
Frequency range	0 ... 500 Hz
Max. interference voltage U_t (change green / red)	240 V
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 $> U_t$
Self-test	Testing function, grounding and protective resistors
Input resistance	311 k Ω
Current peak value	3,2 mA at 1000 V AC/ DC
On-time	15 min
Overvoltage category	CAT IV
Surge voltage strength	$>19,2$ kV case insulation to user >12 kV circuit between test prod and ground
Operating temperature	$-15^{\circ}\text{C} \dots +55^{\circ}\text{C}$
Power supply	6 x AA 1,5 V multi-stage battery indicator
Protection category	IP 65, device can be used in moist environments
Design	Two-pole voltage tester with connection to ground by clamp or magnet <ul style="list-style-type: none"> • 4-piece telescope test probe, made of double-walled GRP-tube with moulded resistor decade approx. 186 kΩ • Display part made of impact resistant, dust-proof plastic casing IP 65 with unbreakable display cover • 1,8 m 3 m PUR sheathed cable with clamp or magnet
Standards	Display unit, function and test procedur EN/IEC 61243-3 Extension and telescopic tube in accordance with EN/IEC 61010-1 Surge voltage strength in accordance with EN/IEC 60071
Dimensions / Weight	1650 x 120 x 110 mm run-out length up to 5,1 m device incl. line and magnet 2,3 kg device incl. clamp for rail foot 2,6 kg

Type	Article No.	Earth contact	Telescope	Self-test	LC display for voltage and frequency	For indoor installations	For outdoor installations
TT 1M 50-1000 V	89306	magnet	6 m	■	■	■	■
TT 1K 50-1000 V	89336	rail foot clamp		■	■	■	■