

# Тестеры DT-9902/9902N/9903/9903N, DT-9230/9231/9232/9233, DT-9330/9331/9332

## Технические характеристики

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# DT-9230/9231/9232/9233

## Electrical Testers

CEM

### Features

|                                                                                                                                        | 9230 | 9231 | 9232 | 9233 |
|----------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|
| Complies with EN 61243-3:2014                                                                                                          | *    | *    | *    | *    |
| LED Indication Range: 12 V to 690 V dc and ac                                                                                          | *    |      |      |      |
| LED Indication Range: 12 V to 1000 V dc and ac                                                                                         |      | *    | *    | *    |
| Independent ELV indicator LED, indicates if >50 V ac/120 V dc is present even in the event of no battery power or main circuit failure | *    | *    | *    | *    |
| LCD Indication Range: 6 V to 1000 V dc and ac                                                                                          |      |      | *    | *    |
| Resistance Measurement: LCD 3½ digit (0 to 1999 Ω/1Ω resolution)                                                                       |      |      |      | *    |
| LCD BacklightDisplay HOLD: Freeze/unfreeze display with voltage or resistance measurement                                              |      |      | *    | *    |
| Fixed Impedance ~350 kΩ (≤3.5 mA @ 1000 V)                                                                                             |      | *    | *    | *    |
| Switchable Load by 2 pushbuttons (30 mA @ 230 V)                                                                                       |      | *    |      | *    |
| Vibration During Load (when 2 switchable load pushbuttons are pushed)                                                                  |      | *    |      | *    |
| Single-Pole Phase Test (also operates with gloves)                                                                                     |      | *    | *    | *    |
| Rotary Field Direction (also operates with gloves)                                                                                     |      | *    | *    | *    |
| Continuity Test / Diode Test                                                                                                           | *    | *    | *    | *    |
| Flashlight                                                                                                                             |      | *    | *    | *    |
| Beeper for Continuity                                                                                                                  | *    | *    | *    | *    |
| Beeper for Phase/ACV                                                                                                                   |      | *    | *    | *    |
| 19 mm Probe Tip distance when docked                                                                                                   | *    | *    | *    | *    |
| CAT III 1000 V / CAT IV 600 V                                                                                                          | *    | *    | *    | *    |
| IP64                                                                                                                                   | *    | *    | *    | *    |



Model 9230

Model 9231



### Specifications

|                                            |                                                                | 9230 | 9231 | 9232 | 9233 |
|--------------------------------------------|----------------------------------------------------------------|------|------|------|------|
| <b>LEDs</b>                                |                                                                |      |      |      |      |
| Voltage range                              | 12 V to 690 V ac/dc                                            | *    |      |      |      |
|                                            | 12 V to 1000 V ac/dc                                           |      | *    | *    | *    |
| Resolution                                 | ±12 V, 24 V, 36V, 50 V, 120 V, 230 V, 400 V, 690 V             | *    |      |      |      |
|                                            | ±12 V, 24 V, 50 V, 120 V, 230 V, 400 V, 690 V, 1000 V          |      | *    | *    | *    |
| Frequency range                            | 0 / 50 Hz to 60 Hz                                             | *    |      |      |      |
|                                            | 0 / 40 Hz to 400 Hz                                            |      | *    | *    | *    |
| Response time                              | ≤0.5 second                                                    | *    | *    | *    | *    |
| Auto power on                              | ≥12 V ac/dc                                                    | *    | *    | *    | *    |
| <b>LCD</b>                                 |                                                                |      |      |      |      |
| Voltage range                              | 6V to 1000V ac/dc                                              |      |      | *    | *    |
| Resolution                                 | ±1V                                                            |      |      | *    | *    |
| Tolerance                                  | ±(3 % rdg + 5 digits)                                          |      |      | *    | *    |
| Frequency range                            | 0 / 40 Hz to 400 Hz                                            |      |      | *    | *    |
| Response time                              | ≤1 second                                                      |      |      | *    | *    |
| Auto power on                              | ≥6 V ac/dc                                                     |      |      | *    | *    |
| Voltage detection                          | Automatic                                                      | *    | *    | *    | *    |
| Polarity detection                         | Full range                                                     | *    | *    | *    | *    |
| Range detection                            | Automatic                                                      | *    | *    | *    | *    |
| Internal basic load impedance Peak current | Maximum 3.5 mA at 690 V 250 kΩ / Is <3.5 mA                    | *    |      |      |      |
|                                            | Maximum 3.5 mA at 1000 V 350 kΩ / Is <3.5 mA (no RCD tripping) |      | *    | *    | *    |
| Operation time                             | Duration Time =30 seconds                                      | *    | *    | *    | *    |
| Recovery time                              | Recovery Time =240 seconds                                     | *    | *    | *    | *    |
| Switchable Load                            | ~7 kΩ                                                          |      | *    |      | *    |
| Peak current                               | Is (load) = 150 mA                                             |      | *    |      | *    |
| RCD tripping                               | I=30 mA @ 230 V                                                |      | *    |      | *    |
| Continuity Test                            | 0 to 200 kΩ                                                    | *    |      |      |      |
|                                            | 0 to 400 kΩ                                                    |      | *    | *    | *    |
| Accuracy                                   | nominal resistance +50 %                                       | *    | *    | *    | *    |
| Test current                               | ≤5 μA                                                          | *    | *    | *    | *    |
| Single-pole Phase Test                     | 100 V ac to 1000 V ac                                          |      | *    | *    | *    |
| Frequency range                            | 40 Hz to 60 Hz                                                 |      | *    | *    | *    |
| Rotary Field Indication                    |                                                                |      | *    | *    | *    |
| Voltage range (LEDs)                       | 100 V to 1000 V (phase to earth)                               |      | *    | *    | *    |
|                                            | 50 Hz to 60 Hz                                                 |      | *    | *    | *    |
| Resistance Measurement                     | 0 Ω to 1999 Ω                                                  |      |      |      | *    |
| Resolution                                 | 1 Ω                                                            |      |      |      | *    |
| Tolerance                                  | ±(5 % rdg +10 digits) @ 20 °C                                  |      |      |      | *    |
| Temperature coefficient                    | ±5 digits / 10 K                                               |      |      |      | *    |
| Test current                               | ≤30 μA                                                         |      |      |      | *    |



Model 9232



Model 9233

Size(HxWxD): 240mm x 78mm x 30mm

Accessories:

Weight: 237g

Two "AAA" batteries, gift box with carrying case

# DT-9330/9331/9332

## Electrical Testers

CEM

### Features

|                                                                                                                                        | 9330 | 9331 | 9332 |
|----------------------------------------------------------------------------------------------------------------------------------------|------|------|------|
| Complies with EN 61243-3:2014                                                                                                          | *    | *    | *    |
| LED Indication Range: 12 V to 1000 V dc and ac                                                                                         | *    | *    |      |
| Independent ELV indicator LED, indicates if >50 V ac/120 V dc is present even in the event of no battery power or main circuit failure | *    | *    | *    |
| LCD Indication Range: 6 V to 1000 V dc and ac                                                                                          |      | *    | *    |
| Resistance Measurement: LCD 3½ digit (0 to 1999 Ω/1Ω resolution)                                                                       |      | *    | *    |
| LCD Backlight Display HOLD: Freeze/unfreeze display with voltage or resistance measurement                                             |      | *    | *    |
| Rugged, Double-Insulated Wire                                                                                                          | *    | *    | *    |
| Fixed Impedance ~300 kΩ (≤3.5 mA @ 1000 V)                                                                                             | *    | *    | *    |
| Switchable Load by 2 pushbuttons (30 mA @ 230 V)                                                                                       | *    | *    | *    |
| Single-Pole Phase Test (also operates with gloves)                                                                                     | *    | *    | *    |
| Rotary Field Direction (also operates with gloves)                                                                                     | *    | *    | *    |
| Continuity Test / Diode Test                                                                                                           | *    | *    | *    |
| Flashlight                                                                                                                             | *    | *    | *    |
| Beeper for Continuity/Phase/ACV                                                                                                        | *    | *    | *    |
| 19 mm Probe Tip distance when docked                                                                                                   | *    | *    | *    |
| CAT III 1000 V / CAT IV 600 V                                                                                                          | *    | *    | *    |
| IP64 rating                                                                                                                            | *    | *    | *    |

### Specifications

|                                                   |                                                                | 9330 | 9331 | 9332 |
|---------------------------------------------------|----------------------------------------------------------------|------|------|------|
| <b>LEDs</b>                                       |                                                                |      |      |      |
| Voltage range                                     | 12 V to 1000 V ac/dc                                           | *    | *    |      |
| Resolution                                        | ±12 V, 24 V, 50 V, 120 V, 230 V, 400 V, 690 V, 1000 V          | *    | *    |      |
| Tolerance                                         | Complies with EN 61243-3:2014                                  | *    | *    |      |
| Frequency range                                   | 0 / 40 Hz to 400 Hz                                            | *    | *    |      |
| Response time                                     | ≤0.5 second                                                    | *    | *    |      |
| Auto power on                                     | ≥12 V ac/dc                                                    | *    | *    |      |
| <b>LCD</b>                                        |                                                                |      |      |      |
| Voltage range                                     | 6V to 1000V ac/dc                                              |      | *    | *    |
| Resolution                                        | ±1V                                                            |      | *    | *    |
| Tolerance                                         | ±(3 % rdg + 5 digits)                                          |      | *    | *    |
| Frequency range                                   | 0 / 40 Hz to 400 Hz                                            |      | *    | *    |
| Response time                                     | ≤1 second                                                      |      | *    | *    |
| Auto power on                                     | ≥6 V ac/dc                                                     |      | *    | *    |
| <b>Voltage detection</b>                          | Automatic                                                      | *    | *    | *    |
| <b>Polarity detection</b>                         | Full range                                                     | *    | *    | *    |
| <b>Range detection</b>                            | Automatic                                                      | *    | *    | *    |
| <b>Internal basic load impedance Peak current</b> | Maximum 3.5 mA at 1000 V 300 kΩ / Is <3.5 mA (no RCD tripping) | *    | *    | *    |
| <b>Operation time</b>                             | Duration Time =30 seconds                                      | *    | *    | *    |
| <b>Recovery time</b>                              | Recovery Time =240 seconds                                     | *    | *    | *    |
| <b>Switchable Load</b>                            | ~7 kΩ                                                          | *    | *    | *    |
| Peak current                                      | Is (load) = 150 mA                                             | *    | *    | *    |
| RCD tripping                                      | I=30 mA @ 230 V                                                | *    | *    | *    |
| <b>Continuity Test</b>                            | 0 to 400 kΩ                                                    | *    | *    | *    |
| Accuracy                                          | nominal resistance +50 %                                       | *    | *    | *    |
| Test current                                      | ≤5 μA                                                          | *    | *    | *    |
| <b>Single-pole Phase Test</b>                     | 100 V ac to 1000 V ac                                          | *    | *    | *    |
| Frequency range                                   | 40 Hz to 60 Hz                                                 | *    | *    | *    |
| <b>Rotary Field Indication</b>                    |                                                                | *    | *    | *    |
| Voltage range (LEDs)                              | 100 V to 1000 V (phase to earth)                               | *    | *    | *    |
| Frequency range                                   | 50 Hz to 60 Hz                                                 | *    | *    | *    |
| <b>Resistance Measurement</b>                     | 0 Ω to 1999 Ω                                                  |      | *    | *    |
| Resolution                                        | 1 Ω                                                            |      | *    | *    |
| Tolerance                                         | ±(5 % rdg +10 digits) @ 20 °C                                  |      | *    | *    |
| Temperature coefficient                           | ±5 digits / 10 K                                               |      | *    | *    |
| Test current                                      | ≤30 μA                                                         |      | *    | *    |

Size(HxWxD): 240mm x 73mm x 34mm

Accessories:

Weight: 237g

Two "AAA" batteries, gift box with carrying case



Model 9330



Model 9332



Model 9331



EMC & LVD

EN: 61326

EN: 61010-1

EN: 61243

EN: 61010-3



9902 & 9903 Electrical Testers provide voltage, continuity with one compact tool. They will be turned on automatically when you place the probe across a complete circuit. So you don't even have to turn them on or off.



Model 9903



EMC & LVD  
EN: 61326  
EN: 61010-1  
EN: 61010-02-032  
EN: 61010-02-033

**Safety Conformance**

Complies with EN 61010-1 for use in CATIII 600V environments



Model 9902

**Features**

|                                                  | 9902  | 9903  |
|--------------------------------------------------|-------|-------|
| Automatically select VAC, VDC or Continuity test | *     | *     |
| 1999 counts LCD display                          |       | *     |
| Automatically power on and off                   | *     | *     |
| High input impedance                             | 1MΩ   | 400kΩ |
| Non-contact voltage detection                    | 9902N | 9903N |
| Low battery indication                           |       | *     |

**Specifications**

| Function        | 9902 | 9903 | Accuracy   |
|-----------------|------|------|------------|
| Voltage AC      | 690V | 600V | ±(3.0%±3d) |
| Voltage DC      | 220V | 600V | ±(1.5%±2d) |
| Continuity Test | *    | *    |            |

**Size(HxWxD):** 9902/9902N : 135mm x 51.5mm x 38.5mm  
9903/9903N : 215mm x 72mm x 36.7mm

**Weight:** 9902/9902N :182g 9903/9903N : 235g

**Accessories:** Test leads, 2 x "AA" batteries and clamshell.

**DT-9133 Lamp Tester**

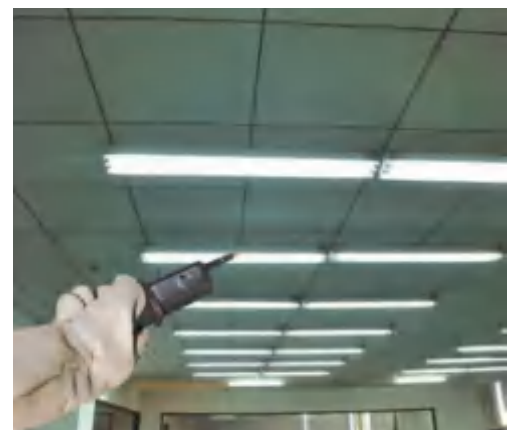
Lamp Tester tests HID and fluorescent lamps and has live conductor sensing. This electrical lamp tester has a compact, rugged housing with carrying case (included).

**Specifications**

|                           |                                  |
|---------------------------|----------------------------------|
| Live Conductor Indication | 60-250VAC, 40-60Hz               |
| Continuity Verification   | 0-5MΩ (test current: <7μA)       |
| Lamp Tester Voltage       | 3kV/160kHz (test current:<200μA) |
| Measurement Category      | CAT II 250V                      |

**Size(HxWxD):**189mm x 26.5mm x 2.6mm

**Weight:** 60g





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