

### Overview

A rugged and reliable AC/DC voltage detector and electrical tester designed for professional electricians, maintenance engineers, and industrial technicians. The instrument combines voltage detection, continuity testing, resistance measurement, phase rotation indication, and RCD testing in a compact handheld device with enhanced safety protection.

### Key Features

- Automatic AC/DC voltage detection
- 3½ digit backlit LCD with 1999 counts
- LED indication for voltage levels
- Built-in flashlight for low-light operation
- Auto polarity indication
- Phase rotation indication
- Continuity and resistance measurement
- Single-pole phase testing
- 30mA RCD tripping test
- Overload protection up to 1000V AC/DC
- IP67 water and dust resistant housing
- CAT III 1000V / CAT IV 600V safety rating
- TÜV Rheinland GS approved
- Complies with EN61243-3:2014



### General Specifications

Parameter	Specification
Display	3½ Digit LCD, 1999 Counts
Backlight	Yes
LED Voltage Indication	Yes
Flashlight	Built-in
Voltage Detection	Automatic AC/DC
AC Voltage Bandwidth	0/40Hz to 400Hz
Polarity Detection	Automatic
Phase Rotation Detection	Yes
Continuity Test	Yes
Resistance Measurement	Yes
Single Pole Phase Test	Yes

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Parameter	Specification
RCD Test	30mA
Safety Category	CAT III 1000V / CAT IV 600V
Protection Degree	IP67
Power Supply	2 × 1.5V AAA Batteries
Operating Temperature	-10°C to +55°C
Humidity	Max. 85% RH
Standard Compliance	EN61243-3:2014
Certification	TÜV Rheinland GS

### LED Voltage Detection

Parameter	Specification
Voltage Range	12V to 1000V AC/DC
LED Resolution	±12V, 24V, 50V, 120V, 230V, 400V, 690V, 1000V
Frequency Range	0/40Hz to 400Hz
Response Time	≤ 1 Second
Auto Power ON	≥ 12V AC/DC
Compliance	EN61243-3:2014

### LCD Voltage Measurement

Parameter	Specification
Display Type	LCD with Bargraph & Backlight
Voltage Range	6V to 1000V AC/DC
Resolution	1V
Accuracy	±3.0% Reading ±5 Digits
Frequency Range	0/40Hz to 400Hz
Response Time	≤ 1 Second
Auto Power ON	≥ 6V AC/DC

### Electrical Performance

Parameter	Specification
Voltage Detection	Automatic
Polarity Detection	Full Range
Range Detection	Automatic
Internal Basic Load	350kΩ
Peak Current	Max. 3.5mA at 1000V
RCD Non-Tripping Current	Is < 3.5mA

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Parameter	Specification
Operation Duration	30 Seconds
Recovery Time	240 Seconds
Switchable Load	~7kΩ
Peak Current with Load	150mA
RCD Tripping	~30mA @ 230V

### Continuity Testing

Parameter	Specification
Measurement Range	0 to 400kΩ
Accuracy	Nominal Resistance ±50%
Test Current	≤ 5μA

### Resistance Measurement

Parameter	Specification
Measurement Range	0Ω to 1999Ω
Resolution	1Ω
Accuracy	±(5% rdg + 10 digits) @ 20°C
Temperature Coefficient	±5 digits / 10K
Test Current	≤ 30μA

### Single-Pole Phase Test

Parameter	Specification
Voltage Range	100V to 1000V AC
Frequency Range	50Hz to 400Hz

### Rotary Field Indication

Parameter	Specification
Voltage Range	100V to 1000V
Frequency Range	50/60Hz
Measurement Principle	Double-pole & Contact Electrode

### Safety & Environmental Specifications

Parameter	Specification
Safety Standard	EN61243-3:2014
Over Voltage Protection	1000V AC/DC
Measurement Category	CAT III 1000V / CAT IV 600V
Protection Degree	IP64

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Parameter	Specification
Power Consumption	Max. 30mA / Approx. 250mW
Operating Temperature	-10°C to +55°C
Relative Humidity	Max. 85% RH

### Applications

- Industrial electrical maintenance
- Electrical installation testing
- Power distribution systems
- HVAC servicing
- Utility inspection
- Field troubleshooting
- Residential and commercial electrical testing

### Package Includes

- AC/DC Voltage Detector & Electrical Tester
- Test Leads
- 2 × AAA Batteries
- User Manual
- Protective Carrying Case

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