

Electrical Testers



EMC & LVD
EN: 61326
EN: 61010-1
EN: 61243
EN: 61010-3

EN 61010-1
CAT IV
600V

EN 61010-1
CAT III
1000V

9230 /9231/9232/9233 Series new two-pole voltage and continuity testers are now more rugged and easier to use than ever before.

- Fast test results the way you need them, with large, easy-to-use buttons, bright backlights, and clear audible and visible indicators designed for any work situation.
- Rugged, high-quality construction design includes a heavy duty molded case, a thicker cord with wear indicator, sturdy battery case, and well-fitting and durable probe protector.
- Enhanced ergonomic design feels good in your hand, is easy to use (even with gloves) and quick, secure probe docking.
- A complete family of testers with the features, functions, and price/performance to fit your applications and preferences.

AC-8M/AC-9M Magnet Space Testers

GENERAL APPLICATIONS

- Testing operating solenoid valves in pneumatic and hydraulic control equipment
- Testing relays with coils and electrically controlled solenoid valves in all types of vehicles and machineries
- Testing solenoid valves when servicing oil burners, the test lamp lights immediately and without metallic contact where there is a magnetic field, e.g. an activated coil in a solenoid valve. The test lamp responds to all kind of magnetic fields -from alternating current to direct current and to permanent magnets.

Size(HxWxD): 158mm x 21mm x 25mm (AC-8M)

Weight: 34g

Accessories:

Two "AAA" batteries and clamshell



Model AC-8M

Model AC-9M

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 Backlight/Display 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	*	*	*	*

Specifications

		9230	9231	9232	9233
LEDs					
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	*	*	*	*
LCD					
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			*	*	*
Resistance Measurement	Voltage range (LEDs)		*	*	*
	Frequency range	100 V to 1000 V (phase to earth)		*	*
Resolution	50 Hz to 60 Hz		*	*	
Resolution	0 Ω to 1999 Ω			*	*
Tolerance	1 Ω			*	*
Temperature coefficient	±(5 % rdg +10 digits) @ 20 °C			*	*
Test current	±5 digits / 10 K			*	*
	≤30 μA			*	*

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

Weight: 237g

Two "AAA" batteries, gift box with carrying case



Model 9230

Model 9231



Model 9232

Model 9233