

# Smart Electronic Components Tester



## Features

- Automatic DCV or ACV selection, Capacitance, Resistance, Continuity and diode selection
- 6,000 counts LCD display
- Auto scan DC/AC Voltage, resistance, capacitance, diode and continuity
- Data Hold / Max. / Min. recording mode
- Auto Power Off
- Wide capacitance range
- Diode Check & Continuity Test

## Specifications:

Technical		
Insulation	Class 2, Double insulation	
Max. voltage between any Terminal and earth ground	50V DC/AC RMS	
Display	6,000 counts LCD display	
Polarity	Automatic, (-) negative polarity indication	
Over-Range	"OL" mark indication	
Low Battery Indication	A battery symbol is displayed when the battery voltage drops below 2.4V	
Operating Supply Current	Normal operation - 2.5mA In sleep mode - 0.6µA	
Battery Life	Normal operation - about 60 hour	
Measurement Rate	2 times per second nominal	
Auto Power off	Meter automatically shuts down after approx. 10 minutes of inactivity	
Operating Environment	-10°C to 50°C (14°F to 122°F); at <70% relative humidity	
Storage Temperature	-30°C to 60°C (-4°F to 140°F); at <80% relative humidity	
Relative Humidity	90% (0 to 30°C); 75% (30°C to 40°C); 45% (40°C to 50°C)	
For Inside Use, max. Height	Operating : 3,000m, Storage: 10,000m	
Power	Two 1.5V battery, LR44	
Accuracy	Accuracy is given at 18°C to 28°C (65°F to 83°F), less than 70%RH	
DC Voltage (Auto-ranging)		
Range	Resolution	Accuracy
600mV	0.1mV	±0.5% of rdg ±2 digits
6V	1mV	
50V	10mV	
Input Impedance : 10mΩ		
Max. Input : 50V DC or 50V AC rms		



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AC Voltage (Auto-ranging)		
Range	Resolution	Accuracy
600mV	0.1mV	±0.8% of rdg ±5 digits
6V	1mV	±0.8% of rdg ±3 digits
500V	10mV	
Input Impedance : 10mΩ AC Response : 50Hz 60Hz Max. Input : 50V DC or 50V AC rms		

Resistance [Ω] (Auto-ranging)		
Range	Resolution	Accuracy
600Ω	0.1Ω	±1.5% of rdg ±8 digits
6kΩ	1Ω	-
60kΩ	10Ω	
600kΩ	100Ω	
6MΩ	1kΩ	±2.5% of rdg ±8digits
60MΩ	10kΩ	-
Note: When auto scan mode is set, the 60MΩ range is omitted		

Capacitance (Auto-ranging)		
Range	Resolution	Accuracy
6nF	1pF	±5.0% of rdg ±20 dgts
60nF	10pF	±5.0% of rdg ±7 dgts
600nF	0.1nF	±3.0% of rdg ±5 dgts
6μF	1nF	-
60μF	10nF	
600μF	0.1μF	
6mF	0.001mF	±10% of rdg ± 10 dgts
60mF	10mF	-
Note: The 6mF and 60mF both range is not available for auto scan mode.		

Diode Test		
Test Current	Resolution	Accuracy
1mA typical/Open Max. 3V	1mV	±10% of rdg ±5 digits
Open circuit voltage : Max. 3V DC		

### Audible continuity

Audible threshold : Less than 30Ω Test current Max. 1.5mA  
Overload protection : 1,000V DC or AC rms

### Part Number Table

Description	Part Number
Smart Electronic Components Tester	72-8485

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