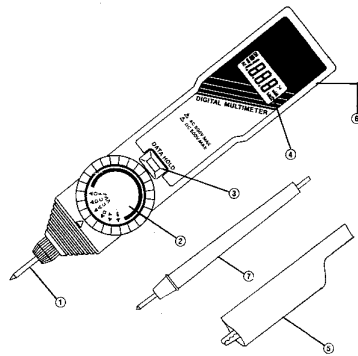


DIGITAL MULTITESTER

Thank you very much for purchasing Digital Multimeter.
We hope you will use it correctly after reading this operator manual carefully.

Be sure to read explanations that are marked with in order to avoid danger.

• NAME OF EACH PART



1. Test pin tip (+)
2. Function switch
3. Data-Hold switch
4. LCD Display
5. Alligator Clip
6. COMMON (-) Input Jack
7. Long pin tip

FEATURES

- Custom designed 80-pin LSI chip to achieve a low overall component count, ensuring long term stability & accuracy.
- New LCD display with annunciators for functions, unit, polarity, decimal & low battery.
- Rotary pencil type.
- Auto ranging & auto polarity.
- Convenient one-hand operation by connection alligator clip.

- Measurement ranges (DCV, ACV, Resistance & Continuity Check Diode Check).
- Data hold switch to fix the reading.

• GENERAL SPECIFICATIONS

- Operation system: Integration
- Display: 3½ digit LCD
- Range selection: Full autoranging system
- Polarity indication: Automatic switching system ("—" " ") indicated automatically when input is negative)
- Sampling time: 0.5 second
- Power requirement: 1.5V (A.A.A.) × 2 battery
- Battery life: 500 hours
- Operating environment: 0°C ~ 40°C
- Storage environment: -25°C ~ 70°C
- Dimension:
- Standard Accessories:
 - Alligator clip 1 pc
 - Long pin tip 1 pc
 - Carrying case 1 pc
 - A.A.A. battery 2 pc
 - Instruction manual 1 pc

MEASUREMENT RANGES

Function	Range	Accuracy	Input Impedance	Max I
DC/V	200 mV	± (0.75% rdg + 3 dgt)	100MΩ or more	± 700 and pea
	2V	"	11MΩ	
	20 V	± (1% rdg + 3 dgt)	10MΩ	
	200 V	"	10MΩ	
	500 V	"	10MΩ	
AC/V	2V	± (1.2% rdg + 5 dgt)	11MΩ	± 700 and pea (40 ~ 400)
	20V	"	10MΩ	
	200V	"	10MΩ	
	500V	"	10MΩ	
	AC 500V: 40 ~ 200Hz ± (2% rdg + 5 dgt) 200 ~ 500Hz ± (4% rdg + 7 dgt)			
Function	Range	Accuracy	Test current	overl protec
Ω	200 Ω	± (1% rdg + 3 dgt)	0.1 mA	+250V and pea
	2 kΩ	"	20 μA	
	20 kΩ	"	2 μA	
	200 kΩ	"	0.2 μA	
	2000 kΩ	"	20 nA	
	20MΩ	± (2% rdg + 5 dgt)	10 nA	

Function	Range	Beeper Sound	Test current	open circuit Voltage
BUZZ	2 k Ω	Approx 500 Ω	50 μ A	Approx 0.43V
Checking Diode		Diode cut-in voltage measurement		

MEASURING METHOD

• MEASUREMENT OF DC VOLTAGE (DC V)

1. Turn the function switch from POWER OFF to DC V position.
2. Connect the test pin to the position side and the COM terminal to the negative side of measured object.
3. The value indicated in the display window is the measured value of voltage with proper decimal point and annunciator indication.

• MEASUREMENT OF AC VOLTAGE (AC V)

1. Turn the function switch from POWER OFF to the AC/V position.
2. Connect the test pin and COM terminal to such measured object as a receptacle. The operator may disregard $-$ or $+$ in this case.
3. The value indicated in the display window is the measured value of voltage with proper decimal point and annunciator indication.

MEASUREMENT OF RESISTANCE (Ω)

1. Turn the function switch from POWER OFF to Ω position.
2. Connect the test leads to the both ends of measured object.
3. The value indicated in the display window is the measured value of resistance with proper decimal point and annunciator indication.

Caution: When resistors of 1M Ω or more are measured, noise or surrounding leakage may sometimes make measured values unstable. In order to perform accuracy measurements, shielding has to be made.

• MEASUREMENT OF CONTINUITY CHECK(•••)

1. Turn the function switch from POWER OFF to ••• position.
2. Connect the test leads to the both ends of measured cord.
3. If ••• marked is displayed on the LCD display and the buzzer sounds, the measured cord is not open.

• MEASUREMENT OF DIODE CHECK

1. Turn the function switch from POWER OFF to the diode position.
2. Connect the COMMON terminal to the cathode side and the test pin to the anode side of measured diode.
3. Forward voltage drop V_f can be directly on the LCD display.

4. Connect the test leads to measured diode in the reverse direction. If indication then is similar to the time when the test leads are connected, the measured diode is considered normal.

• ABOUT MAINTENANCE

1. Avoid storing the tester in the place where it is exposed to the rays of the sun, a high temperature or high humidity.
2. Do not use the tester in the place of a high or low temperature or high moisture.
3. Never perform measurement with wet hands. It is very dangerous to do so when voltage to be measured is high.
4. Take care that the indication may become unstable if the tester is used near a device generating noise or in a place where temperature is to be changed suddenly and greatly.
5. Do not carry out measurement with the battery cover left open.
6. The test should be calibrated and checked up periodically, to maintenance of your tester.

MADE IN KOREA