



DIGITAL Hi TESTER



3201

The Model 3201 employs a Liquid Crystal Display; a totally new concept in Digital Multitesters.

*Low power consumption. Extremely long battery life even with continuous use.

The F.E type Liquid Crystal Display provides remarkably lower power consumption than any other type digital display including LED types. Incorporated in the 3201 circuitry is a C MOS LSI. Average power consumption of this unit is extremely low. (only 300mw)

The 3201 operates on 4 "AA" (penlight) batteries. Approximately 30 hours continuous use with Alkalinebatteries.

The F.E type Liquid Crystal Display incorporated in the 3201 is brighter and easier to read than the DSM type Liquid Crystal Display.

Additionally, the F.E type offers less power consumption and longer battery life than the DSM Liquid Crystal Display.

*Ease of operation with high stability. *High-cost type performance.

Since the 3201 employs a quartz crystal unit in the clock pulse oscillating circuit, a high level of stability is attained.

A semi-automatic range selector makes the 3201 easy to operate. It is also very compact and lightweight.

The 3201 features complete overload protection and safety-oriented construction. The 3201 is a carefully designed unit offering high-cost type performance.

GENERAL SPECIFICATIONS

Operating Principle : Integrating type
Display : Liqueid Crystal Display (Field Effect type)
Maximum Indication : 1999 (except 1,000V DC 500V AC range)
Range Selection : Semiauto Range
Response time : DC, Ω approx. 0.5 sec
 AC approx. 2 secs
Sample Rate : approx. 2 times/sec
Allowable Ambient Temperature:
 : 0 to 40°C(32 to 104°F)
Operating Humidity : Less than 85% (relative humidity)
Temperature Coefficient :
 DC2000mV 20K Ω Range : 150ppm/°C of Full Scale
 AC2000mV AC·DC2000 μ A Range : 200ppm/°C of Full Scale

Power Consumption : approx. 0.3 watt
Power Supply : UM-3 \times 4 or 6V DC, AC Adaptor
Battery Life : Better than 30 hours of continuous use
 with alkaline batteries.
Dielectric Voltage : AC 1500 V DC for one minute between input
 terminal and outer case.
Dimensions : approx. 151H \times 100W \times 55Dmm
Weight : approx. 470g
Include Accessories : Fuse(0.5A) 1 pce, Battery UM-3 4 pcs
 Test leads 2 pcs, Alligator Clip 1 pce
Optional Accessories : Carrying Case, AC Adaptor 9035 (AD-60)
 High Voltage Probe (30KV DC) 9034

PERFORMANCE CHARACTERISTICS

Function	Range	Accuracy	Input Impedance	Note
DC. V	200, 2000mV	0.3%rdg. \pm 0.1%f.s. \pm 1dgt.	5M Ω	200, 2000mV Auto range
	20, 200V	0.5%rdg. \pm 0.1%f.s. \pm 1dgt.	5M Ω	20, 200V Auto range
	1000V	1.5%rdg. \pm 0.1%f.s. \pm 1dgt.	10M Ω	Ext. terminal
AC. V	200mV	0.3%rdg. \pm 1.0%f.s. \pm 1dgt. (40Hz~2KHz)	5M Ω	200, 2000mV Auto range
		1.0%rdg. \pm 1.0%f.s. \pm 1dgt. (2~5KHz)		
	2000mV	0.3%rdg. \pm 0.2%f.s. \pm 1dgt. (40Hz~2KHz)	5M Ω	
		1.0%rdg. \pm 0.2%f.s. \pm 1dgt. (2~5KHz)		
	20, 200V	0.8%rdg. \pm 0.7%f.s. \pm 1dgt. (40~500Hz)	5M Ω	20, 200V Auto range
	1000V	1.7%rdg. \pm 0.3%f.s. \pm 1dgt. (40~500Hz)	10M Ω	Ext. terminal
DC. A	200, 2000 μ A	1.0%rdg. \pm 0.1%f.s. \pm 1dgt.	1K Ω	200, 2000 μ A Auto range
	20, 200mA	1.0%rdg. \pm 0.1%f.s. \pm 1dgt.	10 Ω	20, 200mA Auto range
AC. A	200 μ A	1.3%rdg. \pm 1.0%f.s. \pm 1dgt. (40Hz~1KHz)	1K Ω	200, 2000 μ A Auto range
	2000 μ A	1.3%rdg. \pm 0.2%f.s. \pm 1dgt. (40Hz~1KHz)	1K Ω	
	20, 200mA	1.3%rdg. \pm 0.7%f.s. \pm 1dgt. (40Hz~1KHz)	10 Ω	20, 200mA Auto range
OHM	2, 20K Ω	0.5%rdg. \pm 0.1%f.s. \pm 1dgt.	0.1mA	2, 20K Ω Auto range
	200, 2000K Ω	0.7%rdg. \pm 0.1%f.s. \pm 1dgt.	1 μ A	200, 2000K Ω Auto range

● F.S. of DC 1000V and AC 1000V is 2000V

● AC Voltage and AC Current is the rectified average Value (RMS).

OVERLOAD PROTECTION

- DC. AC V (0~200V) : up to 500V DC or AC during a maximum of one minute.
- DC. 1000V : up to 1200V DC or 600V AC during a maximum of one minute.
- AC. 1000V : up to 1000V AC or 500V DC during a maximum of one minute.
- 2, 20K Ω : up to 200V DC or 150V AC during a maximum of one minute.
- 200, 2000K Ω : up to 200V DC or 150V AC during a maximum of one minute.
- DC.AC.20, 200mA : up to 450mA DC or AC during a maximum of one minute.
- DC.AC 20, 2000 μ A : up to 45mA DC or AC during a maximum of one minute.



HIOKI ELECTRIC WORKS, LTD.

MAIN OFFICE, OVERSEAS DEPT. & FACTORY: 6249 SAKAKI-MACHI, HANISHINA-GUN, NAGANO-JAPAN.
 OVERSEAS TELEX: 03327-508 TELEPHONE NO. : 02688-2-3030~5, 02688-2-3215~6
 BRANCHES: TOKYO, OSAKA, NAGOYA, FUKUOKA, NEW YORK