



Model ST-3501

Digital Multimeter



Features

- Display: 3½ digit liquid crystal display (LCD) with max. reading of 1999.
- Polarity: Automatic, (-) negative polarity indication.
- Zero Adjustment: Automatic.
- Over Range Indication: Highest digit of (1) or (-1) is displayed.
- Low Battery Indication: The (BAT) is displayed when the battery voltage drops below the operating voltage.
- Measurement Rate: 3 measurements per second, nominal.
- Accuracy: Accuracy specifications at 23±5°C, less than 75% RH.

Specifications

DC Voltage (Input impedance : 10MΩ)

Ranges	Resolution	Accuracy	Over voltage Protection
200mV	100nV	±(0.5%rdg+1dgt)	DC 500V
2V	1mV		AC 350V
20V	10mV		
200V	100mV	±(0.5%rdg+1dgt)	DC 1200V
1000V	1V		AC 800V

DC Current (Overload Protection 0.8A(250V) fast blow fuse)

Ranges	Resolution	Accuracy	Over voltage Protection
200μA	100nA		
2mA	1μA	±(1.0%rdg+1dgt)	325mV max
20mA	10μA		
200mA	100μA		
10A	10mA	± (2.0%rdg+3dgt)	700mV max

Capacitance

Ranges	Resolution	Accuracy	Over voltage Protection
2000pF	1pF		
20nF	10pF		
200nF	100pF	±(3%rdg+10dgt)	500mV
2μF	1nF		400Hz
120μF	10nF		

Resistance

Ranges	Resolution	Accuracy	Max test current	Max open circuit voltage
200Ω	0.1Ω	±(1.0%rdg+3dgt)	3mA	3.2V
2kΩ	1Ω		250uA	
200kΩ	10Ω	±(0.8%rdg+1dgt)	50uA	0.3V
200kΩ	100Ω		5uA	
2MΩ	1kΩ		500nA	
20MΩ	10kΩ	±(3.0%rdg+1dgt)	50nA	0.3V

AC Voltage (Input impedance : 10MΩ)

Ranges	Resolution	Accuracy	Over voltage Protection
200mV	100nV	45 Hz to 400 Hz	DC 500V
2V	1mV	±(1.2%rdg+4dgt)	AC 350V
20V	10mV		
200V	100mV	±(1.2%rdg+4dgt)	DC 1200V
1000V	1V		AC 800V

AC Current (Overload Protection 0.8A(250V) fast blow fuse)

Ranges	Resolution	Accuracy	Over voltage Protection
200μA	100nA		
2mA	1μA	±(1.2%rdg+1dgt)	325mV max
20mA	10μA		
200mA	100μA		
10A	10mA	± (2.0%rdg+3dgt)	700mV max

Continuity

Ranges	Resolution	Accuracy	Max test current	Max open circuit voltage
200Ω	0.1Ω	Built Buzzer sounds when resistance is less than Ω80	1.5mA	3.2V

HFE Test

Base DC Current: 10μA
 Vce: 2.8 ± 0.4V
 hFE: 1000

Diode Test

Test Current: 3.0 ± 0.6mA
 Test Voltage: 3.2V Max

General

Operating temperature: 0°C to ±50°C, 0-70% RH.
 Storage temperature: -20°C to +60°C, 0-80% RH, with battery removed.
 Dimensions: 128(L)×72(W)×33(D)mm.
 Weight: Approx. 200g
 Power source: Single, 006P 9 volt battery