

# SH1963 Series 6<sup>1/2</sup> Digit Multimeter

## Features

- 4.3-inch LCD color display, Chinese and English menu
- 6 1/2 bit 1199999 digits reading
- Test speed up to 1000 / s
- Small size, front and rear input terminal, easy to shelve (ST1963 only)
- Histogram, bar graph, trend chart display
- AC low frequency signal can be tested down to 3Hz
- Capacitance test function
- Up to 5V diode test voltage
- Stores data up to 10,000
- Fast help

## Application

- Production line workbench
- Maintenance workbench
- Teaching laboratory
- Automated test equipment

## Specifications

Model	SH1963	SH1963A			
Display	4.3-inch LCD color display				
Display digits	1199999 digits reading				
Measurement parameters	DC voltage, AC voltage, DC current, AC current, DC resistance, capacitance, frequency, breakover, diode, temperature				
Display mode	Direct reading, histogram, bar graph, trend chart				
Measurement speed	Up to 1000 times / s				
Math function	Reset function, Min / Max / Average / Standard deviation, dB, dBm				
Common features	Range	Trigger mode	Reading-hold	Limit measurement	
	Auto / Manual	LOCAL: AUTO / SINGLE / EXT REMOTE: IMMEDIATE/BUS/EXT	Yes	HI, Lo and IN (PASS), with sound beep	
Technical Index	Uncertainty: ± (% of reading + % of range), T <sub>CAL</sub> =25°C				
Parameters	Range / Test Range	Frequency	Highest annual accuracy T <sub>CAL</sub> ± 5°C		Highest temperature coefficient/°C
			ST1963	ST1963A	
DC voltage	100.0000 mV - 1000.000V		0.0035 + 0.0005	0.0075 + 0.0005	0.0005 + 0.0001
True RMS AC voltage	100.000mV - 750.000V	3 - 5Hz	1.00 + 0.03	1.00 + 0.03	0.100 + 0.003
		5 - 10Hz	0.35 + 0.03	0.38 + 0.03	0.035 + 0.003
		10Hz - 20kHz	0.06 + 0.03	0.09 + 0.03	0.005 + 0.003
		20 - 50kHz	0.12 + 0.05	0.15 + 0.05	0.011 + 0.005
		50 - 100kHz	0.60 + 0.08	0.63 + 0.08	0.060 + 0.008
		100 - 300kHz	4.00 + 0.50	4.00 + 0.50	0.200 + 0.020
DC Resistance	10Ω-100MΩ, Test current: 10mA - 500nA		0.010 + 0.001	0.014 + 0.001	0.0006 + 0.0001
DC current	100μA - 10mA		0.050 + 0.006	0.050 + 0.005	0.0020 + 0.0005
	100mA		0.050 + 0.004	0.050 + 0.004	0.0020 + 0.0005
	1A		0.100 + 0.004	0.100 + 0.004	0.0050 + 0.0010
	3A		0.200 + 0.020	0.200 + 0.020	0.0050 + 0.0020
	10A		0.120 + 0.010	0.120 + 0.010	0.0050 + 0.0010
AC current	100μA - 100mA	3kHz - 5kHz	1.00 + 0.04	0.10 + 0.04	0.100 + 0.006
		5kHz - 10kHz	0.10 + 0.04	0.10 + 0.04	0.030 + 0.006
	1A	3kHz - 5kHz	0.10 + 0.04	0.10 + 0.04	0.015 + 0.006
		5kHz - 10kHz	0.10 + 0.04	0.10 + 0.04	0.030 + 0.006
	3A	3Hz - 5kHz	0.23 + 0.04	0.23 + 0.04	0.100 + 0.006
		5kHz - 10kHz	0.23 + 0.04	0.23 + 0.04	0.030 + 0.006
	10A	3Hz - 5kHz	0.15 + 0.04	0.15 + 0.04	0.100 + 0.006
		5kHz - 10kHz	0.15 + 0.04	0.15 + 0.04	0.030 + 0.006
Frequency	3Hz - 10Hz		0.100	0.100	0.0002
	10Hz - 100Hz		0.030	0.030	0.0002
	100Hz - 1kHz		0.010	0.012	0.0002
	100Hz - 300kHz		0.010	0.012	0.0002
	Square wave		0.010	0.012	0.0002
Diode	5V, Test current: 1mA		0.010 + 0.030		0.0010 + 0.0020
Breakover	1kΩ, Test current: 1mA		0.010 + 0.030		0.0010 + 0.0020
Capacitance	1.0000nF		1.0 + 0.5		0.02
	10.000nF - 1.0000mF		0.5 + 0.1		0.02
	10.000mF		1.0 + 0.5		0.02
Temperature	PT100 (DIN/ IEC 751)		± 0.05°C		
	5 kΩ Thermistor		± 0.10°C		



RS232	LAN	USB HOST	USB DEVICE	GPIB OR HANDLER
standard	standard	standard	standard	

## SH1963

Rack mount (mm): 215(W) x 88(H) x 300(D)  
Dimension (mm): 235(W) x 105(H) x 320(D)  
Net weight: 2.7 kg

## Standard Accessories

3 cord power line  
SH26017 USB Cable SH26036 One pair of test lead (red and black)