

# STA9952 Series Digital Multimeter

## Features

- 120000 count display
- High brightness VFD dual-display
- True-rms AC voltage and current test
- Multiple mathematics operation function DCV/ACV/DCI/ACI /AC+DC/Ω/CAP/Temperature/Frequency/Diode/Continuity and dB/dBm
- Other parameters in current test signal displayed in second display
- Max. ADC sampling rate can be 200 times/s
- DCV test accuracy up to 0.012%, resolution up to 1μV
- Relative mode(REL)to eliminate remaining reading
- Calibration without opening the case
- Limit function(Limit), for fast sorting
- Data statistics function Max/Min, Max. value, Min. value, Average value and number of statistics
- Standard USB interface,provide convenient system communication function
- Standard Handler interface,provide external trigger and sorting signal for production line



## STA9952

- STA9952 5 1/2 digit multimeter is a multi-functional, cost-effective voltage/current/resistance/capacitance meter. It provides Max. 120000 count, Max. sampling rate 200 times/s, 0.012% DCV accuracy ,etc, which is the optimal selection for users.

STA9952 provides high brightness VFD Dual-display, which can display ACV/DCV or DCI, ACV/ACI and frequency .etc to improve the test efficiency and, clearer display.

STA9952 is configured with USB interface, and also communication software is provided for PC communication, data analysis, statistics, building system. STA9952 accepts SCPI command to be compatible with communication software. Also Handler interface is provided to receive the external trigger and output sorting signal for production line.

Test function				
Test parameter	DCV, ACV, DCI, ACI, DCR, CP, FREQ, CONT, DIODE, TEMP			
Mathematics function	%, dB, dBm, REL, mX+b			
Range	Auto, Manual			
Display	High brightness VFD dual-display			
Trigger Mode	INT/BUS/EXIT			
Reading Hold	To find out best stable reading for each data block of the given reading number according to the given accuracy.			
Limitation measurement	To judge HI、IN、LO and display, with ALARM for HI/LO			
Calibration	Auto,Manual			
External Trigger	Handle interface (external trigger and output sorting signal)			
Communication interface	SCPI command support for RS232 and USB interface			
Performance parameter expression of uncertainty: ±(% of reading+% of full scale)				
Reading rate(reading/s)				
Reading rate	Fast		Slow	
	4 1/2	5 1/2	4 1/2	5 1/2
DCV/DCI	80	15	15	4
ACV/ACI	80	15	15	4
Ω	80	15	15	4
DCV				
Range	Min.Resolution		Max.Uncertainty(1 year)	
100mV-1000V	1μV		0.012%+0.008%	
DCI				
Range	Min.Resolution		Max.Uncertainty(1 year)	
1mA-100mA	10nA		0.05%+0.005%	
1A	10μA		0.10%+0.008%	
10A	100μA		0.20%+0.006%	
ACV				
Range	Frequency	Min.Resolution	Max.Uncertainty (1 year)	
100mV-750V	20Hz-50Hz	1μV	1.00%+0.1%	
	50Hz-10kHz		0.20%+0.08%	
	10kHz-30kHz		0.80%+0.08%	
	30kHz-100kHz		3.00%+0.2%	
ACI				
Range	Frequency	Min.Resolution	Max.Uncertainty (1year)	
1mA -10A	20Hz-50Hz	10nA	1.0%+0.08%	
	50Hz-2kHz		0.5%+0.08%	
	2kHz-10kHz		2.0%+0.18%	
Resistance				
Range	Min.Resolution		Max.Uncertainty(1 year)	
100Ω-1MΩ	10μΩ		0.05%+0.008%	
10MΩ	100Ω		0.20%+0.008%	
100MΩ	1kΩ		2.00%+0.005%	
Capacitance				
Range	Min.Resolution		Max.Uncertainty(1 year)	
1nF	1pF		2%+0.8%	
10nF-1000uF	10pF		1.0%+0.5%	
10000uF	1uF		2%+0.5%	
Frequency				
Range	Voltage sensitivity	Min.Resolution	Max.Uncertainty (1year)	
1Hz-1MHz	40mV rms	10μHz	0.005%+0.003%	
Temperature				
Range	Probe type	Min.Resolution	Max.Uncertainty (1year)	
-10℃-100℃	PT500	0.1℃	Probe accuracy±0.2℃	
Uncertainty is not assured if the temperature is out of the range				