

DIGITAL TRUE RMS SMART CLAMP METER DT27S

APPLICATION: This is a 3½ Digits large size double display screen Auto range smart Clamp Meter with full scale overload protection. This instrument can be used to measure AC/DC voltage, AC current, Resistance, Capacitance, Temperature, Frequency, Diode, Continuity Test, measurement and other parameters. It is an ideal tool for the Electricians, Engineers, Factories, Industries, Laboratories, Students, Household.

FEATURES:

- Display: 3½ Digits 9999 Counts.
- NCV & Live testing mode.
- Data hold function.
- Low Battery Indication
- Sampling Rate 3 times/sec
- Clamp Jaw Opening Size 30mm
- Operating Temperature & Humidity: 0°C To 40°C, <80%RH
- Storage Temperature & Humidity: -10°C To 50°C, <70%RH
- Power Supply: 2pcs x 1.5V AAA Size Batteries
- Weight: 178 gms
- Display Size: 55 x 35mm(5.5x3.5cm)
- Unit Size: 195x 74 x 30mm



SPECIFICATION:

DC Voltage

Ranges	Resolution	Accuracy
10V	1mV	± (0.8% of reading + 3)
100V	0.01V	
600V	0.1V	

- Maximum input voltage: 600V DC
- Minimum measured Voltage: 0.5V DC

AC Voltage

Ranges	Resolution	Accuracy
10V	1mV	± (1% of reading + 5)
100V	0.01V	
600V	0.1V	

- Maximum input voltage: 600V AC Effective value
- Minimum measured Voltage: 1V AC
- Frequency Response: 50Hz-60Hz true RMS

AC CURRENT(50Hz-1000Hz)

RANGE	RESOLUTION	ACCURACY
10A	0.001A	± (3.5% of reading + 10)
100A	0.01A	
600A	0.1A	

- Maximum input Current: 600A
- Frequency range: 50 ~ 60Hz
- Response: True RMS

FREQUENCY :

Tong head frequency measurement(through gear A):

RANGE	RESOLUTION	ACCURACY
60Hz	0.1Hz	±(2.0% of reading + 10)
1000Hz	1Hz	

- Measurement Range: 40Hz ~ 1000Hz
- Input signal Range: ≥ 1A AC (effective value)

Through V gear:

RANGE	RESOLUTION	ACCURACY
60Hz	0.1Hz	±(2.0% of reading + 10)
1000Hz	1Hz	

-Measurement Range: 40Hz ~ 1000Hz


-Input signal Range: ≥ 1A AC (effective value)

RESISTANCE

RANGE	RESOLUTION	ACCURACY
9999Ω	1Ω	±(1.5% of reading + 3)
99.99kΩ	10Ω	
999.9kΩ	100Ω	
9.999MΩ	1kΩ	

Overload protection: 250V DC or AC (effective Value)


DIODE Test

RANGE	RESOLVING POWER	ACCURACY
	0.001V	Displays the approximate diode forward voltage value

-Reverse DC Voltage is about 2.5V

-Overload Protection: 250V DC or AC (effective value)

DIODE & CONTINUITY

RANGE	RESOLVING POWER	ACCURACY
	0.1Ω	If the resistance of the measured line is less than 30Ω, the buzzer attached to the instrument will sound.

-Overload Protection: 250V DC or AC (effective value)

CAPACITANCE

RANGE	RESOLUTION	ACCURACY
99.9μF	100nF	±(3.5% of reading + 10)
9999μF	1μF	±(4.5% of reading + 10)

Overload protection: 250V DC or AC peak

TEMPERATURE:

RANGE		RESOLUTION	ACCURACY
20~1000°C	-20~0°C	1°C	±(5% of reading + 4)
	1~100°C		±(2% of reading + 3)
	101°C ~1000°C		±(2% of reading + 3)
-4°F ~1832°F	-4°F ~32°F	1°F	±(5% of reading + 8)
	33°F ~212°F		±(2% of reading + 6)
	213°F ~1832°F		±(2.5% of reading + 5)

ACCESSORIES:

Operating Manual, 1Set Test lead, Temperature Probe, 2 pc 1.5V AAA Size Batteries, Carrying Pouch.

