

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: $\geq 1A$ 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 | ±(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 | ±(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.

