

# DIGITAL CLAMP METERS

Clamp meters are handheld devices with multimeter functions and able to measure AC/DC current directly without breaking the electrical conductor. Today's clamp meters are multi-functional designed and used in HVAC/R, electrical vehicles, electrical installation, motor inspection, engineering R&D, and many other applications. UNI-T clamp meters are well known for its performance, practicality, and reliability.



## UT219 SERIES PROFESSIONAL CLAMP METERS



● UT219DS

- Auto/Manual range
- True RMS
- Auto power off
- MAX/MIN
- Low battery indication
- LoZ input for ghost voltage measurement
- Flashlight and auto backlight
- 3-phase motor sequence test (UT219M/DS)
- Temperature and  $\mu\text{A}$  measurements (flame sensor) (UT219M/DS)
- Inrush current (UT219DS)
- AC+DC voltage (UT219DS)
- V+A dual display (UT219DS)

UT219 series is 600A true RMS professional clamp meter with CAT IV 600V rating. It is industrially designed with IP54 rating and able to withstand 2 meters drop test for measurement in harsh environments. This series is suitable for professional electricians, HVAC/R and motor technicians.

	Range	UT219E	UT219M	UT219DS
AC current (A)	600A	$\pm(1.8\%+6)$	$\pm(1.8\%+6)$	$\pm(1.8\%+6)$
DC current (A)	600A			$\pm(1.8\%+6)$
	2000 $\mu\text{A}$		$\pm(0.9\%+6)$	$\pm(0.9\%+6)$
AC voltage (V)	1000V	$\pm(1\%+6)$	$\pm(1\%+6)$	$\pm(1\%+6)$
DC voltage (V)	1000V	$\pm(0.6\%+3)$	$\pm(0.6\%+3)$	$\pm(0.6\%+3)$
LoZ ACV	600V	$\pm(2.5\%+6)$	$\pm(2.5\%+6)$	$\pm(2.5\%+6)$
Resistance ( $\Omega$ )	60M $\Omega$	$\pm(1\%+3)$	$\pm(1\%+3)$	$\pm(1\%+3)$
Capacitance (F)	60mF	$\pm(4\%+7)$	$\pm(4\%+7)$	$\pm(4\%+7)$
Frequency (Hz)	10Hz~10MHz	$\pm(0.1\%+6)$		
	600Hz~40MHz		$\pm(0.1\%+5)$	$\pm(0.1\%+6)$
Duty cycle	0.1% ~ 99.9%	$\pm(2.6\%+7)$		$\pm(2.6\%+7)$
Temperature	-40~1000°C		$\pm(2\%+5^\circ\text{C})$	$\pm(2\%+5^\circ\text{C})$
	-40~1832°F		$\pm(2\%+9^\circ\text{F})$	$\pm(2\%+9^\circ\text{F})$

### Features

Display count		6000	6000	6000
Jaw opening		33mm	33mm	33mm
AC current frequency response		40Hz~400Hz	40Hz~400Hz	40Hz~400Hz
AC voltage frequency response		40Hz~400Hz	40Hz~400Hz	40Hz~1kHz
3-phase motor sequence test	600V		√	√
Low pass filter	1kHz, 3db attenuation			√
V+A displays voltage and current at the same time				√
Diode test		12V	3V	3V
Measurement sampling rate		3 times/s	3 times/s	5 times/s
Analog bar sampling rate		10 times/s		20 times/s
Analog bar		31 segment		31 segment
Display interface (LCD)		Single	Single	Dual
Data hold (H)/Relative mode (REL)		√	√	√
ZERO mode		√	√	√
Function selection (SELECT)		√	√	√
Auto backlight/2m drop test		√	√	√
IP rating		IP54	IP54	IP54
Input impedance	$\geq 10\text{M}\Omega$	√	√	√
Power	1.5V battery (R03) x 3			
Display	35mm x 31mm			
Product color	Red and grey			
Product net weight	310g			
Product size	234.6mm x 82mm x 47mm			
Standard accessories	Test leads, batteries, carrying bag, PC software CD, point contact temperature probe (UT219M/UT219DS)			
Standard individual packing	Gift box, blister, English manual (German, French, Spanish optional)			
Standard quantity per carton	10pcs			
Standard carton measurement	490mm x 295mm x 330mm			
Standard carton gross weight	UT219E: 8kg; UT219M/UT219DS: 8.2kg			