



● 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 service technicians.

- LoZ input for ghost voltage measurement
- Flashlight and auto backlight
- 3-phase motor sequence test (UT219M/DS)
- Temperature and  $\mu A$  measurements (flame sensor) (UT219M/DS)
- Inrush current (UT219DS)
- AC+DC voltage (UT219DS)
- V+A dual display (UT219DS)

## SPECIFICATIONS

|                         | 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 $\mu A$ |                 | $\pm (0.9\%+6)$        |                        |
| 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   |                 | $\pm (2\%+5^{\circ}C)$ | $\pm (2\%+5^{\circ}C)$ |
|                         | -40~1832°F   |                 | $\pm (2\%+9^{\circ}F)$ | $\pm (2\%+9^{\circ}F)$ |

### Features

|                                                   |                       |            |            |            |
|---------------------------------------------------|-----------------------|------------|------------|------------|
| Display count                                     |                       | 6000       | 6000       | 6000       |
| Auto/Manual range                                 |                       | ✓          | ✓          | ✓          |
| Jaw opening                                       |                       | 33mm       | 33mm       | 33mm       |
| True RMS                                          |                       | ✓          | ✓          | ✓          |
| 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                                        |                       | 3V         | 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       |
| Auto power off/MAX/MIN                            |                       | ✓          | ✓          | ✓          |
| Low battery indication                            |                       | ✓          | ✓          | ✓          |
| Data hold (H)/Relative mode (REL)                 |                       | ✓          | ✓          | ✓          |
| ZERO mode                                         |                       | ✓          | ✓          | ✓          |
| Function selection (SELECT)                       |                       | ✓          | ✓          | ✓          |
| Auto backlight/2m drop test                       |                       | ✓          | ✓          | ✓          |
| IP rating                                         |                       | IP54       | IP54       | IP54       |
| Input impedance                                   | $\geq 10M\Omega$      | ✓          | ✓          | ✓          |

## GENERAL CHARACTERISTICS

|                              |                                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------|
| 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                                                                     |
| Standard quantity per carton | 10pcs                                                                                                 |
| Standard carton measurement  | 490mm x 295mm x 330mm                                                                                 |
| Standard carton gross weight | UT219E: 8kg; UT219M/UT219DS: 8.2kg                                                                    |