



# UT89X SERIES



## True RMS Digital Multimeters

- Sampling rate: 3 times/s
- True RMS
- Audible/visual alarm
- Capacitor charging indicator
- Ergonomic design
- Double injection molding
- Auto backlight
- Display count: 6000/20000
- AC frequency range: 45~1000Hz
- Diode/continuity test
- Auto power off/auto backlight
- Conductance 200nS (89XE)
- Data hold
- Function selection: SELECT

### Capacitor Measurement

|   |                      |
|---|----------------------|
|  | Fully charged        |
|  | Charging in progress |

### LED Test (UT89XD only)

|   |   |
|---|---|
|  | Normal LED, forward voltage within 11.1V DC |
|  | LED not working                             |



● UT89XE

| SPECIFICATION        | Range  | UT89X        | UT89XD      | UT89XE     |
|----------------------|--|--------------|-------------|------------|
| DC voltage (V)       | 600mV/6V/60V/600V/1000V<br>200mV/2V/20V/200V/1000V                 | ±(0.5%+2)    | ±(0.5%+2)   | ±(0.05%+5) |
| AC voltage (V)       | 6V/60V/600V/1000V<br>200mV/2V/20V/200V/1000V                       | ±(0.8%+5)    | ±(0.8%+5)   | ±(0.8%+25) |
| DC current (A)       | 60μA/6mA/60mA/600mA/20A<br>2000μA/200mA/20A                        | ±(0.8%+8)    | ±(0.8%+8)   | ±(0.5%+4)  |
| AC current (A)       | 60mA/600mA/20A<br>2000μA/200mA/20A                                 | ±(1%+12)     | ±(1%+12)    | ±(1.5%+15) |
| Resistance (Ω)       | 600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ<br>200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ/200MΩ | ±(0.8%+3)    | ±(0.8%+3)   | ±(0.4%+5)  |
| Capacitance (F)      | 100mF<br>200mF   | ±(2.5%+20)   | ±(2.5%+20)  | ±(4%+50)   |
| Conductance (ns)     | 200nS  |              |             | ±(1.2%+50) |
| Frequency (Hz)       | 9.999Hz/9.999MHz<br>60MHz  | ±(0.1%+4)    | ±(0.1%+4)   | ±(0.1%+3)  |
| Duty cycle           | 0.1%~99.9%   | ±(2%+5)      | ±(2%+5)     |            |
| Temperature (°C)     | -40°C~1000°C   | ±(2%+4)      |             | ±(1%+10)   |
| Temperature (°F)     | -40°F~1832°F   | ±(2%+8)      |             | ±(1.5%+10) |
| Live wire test       |  | v            |             |            |
| LED test             |  |              | 12V         |            |
| Audible/visual alarm | V/A/Cap/Diode  | Live/hFE/NCV | LED/hFE/NCV | v          |
| Transistor hFE       |  | v            | v           |            |
| Dual range NCV test  |  | v            | v           |            |
| Flashlight           |  | v            | v           |            |
| MAX/MIN              |  |              |             | v          |
| Peak Hold            |  |              |             | v          |
| LPF measurement      |  |              |             | v          |
| Category ratings     | CAT II 1000V, CAT III 600V   |              |             |            |

### GENERAL CHARACTERISTICS

|                              |   |
|------------------------------|---|
| Power                        | 1.5V battery (R03) x 4  |
| Display                      | 61mm x 36mm   |
| Product net weight           | 345g  |
| Product size                 | 189mm x 89mm x 53mm   |
| Standard accessories         | Batteries, test lead, k-type temperature probe (UT89X/UT89XE), English manual |
| Standard individual packing  | Gift box  |
| Standard quantity per carton | 20pcs   |
| Standard carton measurement  | 450mm x 355mm x 340mm   |
| Standard carton gross weight | 12.2kg  |

# UT890 SERIES

## True RMS Digital Multimeters

The UT890C/D+ 6000-count true RMS digital multimeters are designed with large LCD display. The maximum measurable capacitance is 100mF, with fast response time of less than 12s. The NCV and continuity measurement have acousto-optic indications. UT890D+ has a LIVE function for distinguishing between live and neutral wires. In addition, it is equipped with the automatic fuse blown detection and high voltage protection.

### Applications:

Electrical switchboards; HVAC systems; Electrical circuit faults detection; Installation or maintenance of electronics/factory equipment; Electronics component; development, circuit board design; Users who need to distinguish between neutral/live wire frequently.

- Manual range/True RMS
- NCV/hFE/Max/Min
- Data hold/REL
- Diode test/Continuity test
- Fuse blowing alarm (mA only):  
Input overload or misoperation
- Audible/visual alarm (NCV/continuity)
- High voltage false detection: 1000Vrms
- Current (AC/DC) mode memory
- Over-current alarm: ≥20A
- Low battery indication: ≤2.5V
- Auto power off/LCD Backlight



● UT890D+



Live and nature wires identification



Fuse blowing alarm (mA only)

| SPECIFICATION    | Range                         | UT890C    | UT890D+   |
|------------------|-------------------------------|-----------|-----------|
| DC voltage       | 600mV/6V/60V/600V/1000V       | ±(0.7%+3) | ±(0.7%+3) |
| AC voltage       | 6V/60V/600V/750V              | ±(0.8%+3) | ±(0.8%+3) |
| ACV Frequency    | 10Hz~10kHz                    | ±(0.1%+5) | ±(0.1%+5) |
| DC current       | 60μA/600μA/6mA/60mA/600mA/20A | ±(0.8%+8) | ±(0.8%+8) |
| AC current       | 60μA/600μA/6mA/60mA/600mA/20A | ±(1%+12)  | ±(1%+12)  |
| Resistance       | 600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ  | ±(0.8%+3) | ±(0.8%+3) |
| Capacitance      | 100mF                         | ±(3%+10)  | ±(3%+10)  |
| Frequency        | 9.999Hz~9.999MHz              | ±(0.1%+5) | ±(0.1%+5) |
| Temperature      | -40°C~1000°C/-40°F~1832°F     | ±(1%+3)   |           |
| Display count    |                               | 6000      | 6000      |
| Live             |                               |           | v         |
| Category ratings | CAT II 1000V, CAT III 600V    |           |           |

### GENERAL CHARACTERISTICS

|                              |   |
|------------------------------|---|
| Power                        | 1.5V battery (R03) x 2  |
| Display                      | 60mm x 35mm   |
| Product net weight           | 346g  |
| Product size                 | 183mm x 88mm x 56mm   |
| Standard accessories         | Batteries, test lead, k-type temperature probe (UT890C), English manual |
| Standard individual packing  | Gift box  |
| Standard quantity per carton | 40pcs   |
| Standard carton measurement  | 645mm x 450mm x 340mm   |
| Standard carton gross weight | 23.3kg  |