

UT195 Series Professional Multimeter

UT195 series are handheld industrial digital multimeters with IP65 and 2m drop proof. It can be applied in mines, oilfields and other harsh environments. Compare with traditional multimeters, UT195's troubleshooting capability, resolution, and precision are improved to find issues related to motor drive, factory equipment maintenance, electrical distribution, and repair etc. It is exquisitely designed and easy to operate.



Features

- IP65 rating, 2m drop proof, CAT III 1000V, CAT IV 600V
- Large 6000-count LCD screen
- 5 times/s sampling rate (195DS only)
- True RMS
- ACV 750V 5kHz bandwidth
- (AC+DC) or (AV+FREQ) and more, dual modes (195DS only)
- Flashlight
- Auto LCD backlight controlled by light sensor (feature can be turned off)
- LoZ voltage test, for ghost voltage measurement
- Motor phase sequence measurement with 2 probes (UT195M/DS only)
- 20A current measurement (max 30 seconds)
- 31 analog bar (195E/195DS only)
- Low pass filter, 1kHz 3dB attenuation (195DS only)

	UT195E	UT195M	UT195DS
DC voltage		1000V	
AC voltage		750V	
LoZ ACV		600V	
DC current		20A	
AC current		20A	
Resistance		60MΩ	
Capacitance		60mF	
Frequency		10.00 MHz	40.00 MHz
Temperature		-40°C ~ 1000°C -40°F ~ 1832°F	
Duty ratio	0.1% ~ 99.9%		0.1% ~ 99.9%
Motor 3-phase test		80V ~ 600VAC (40~80Hz)	



Ordering Information

UT195E True RMS, 6000 Display Count
UT195M True RMS, 6000 Display Count, Temperature/Motor Phase Sequence Measurement
UT195DS True RMS, 6000 display count, Motor Phase Sequence Measurement, AC+DC Dual-mode Display

Specifications	Range	Best Accuracy		
Model		UT195E	UT195M	UT195DS
DC voltage	600mV ~ 1000V	±(0.5%+3)	±(0.5%+3)	±(0.5%+3)
AC+DC	6.000V ~ 600V			±(1.5%+4)
AC voltage	600mV ~ 750V	±(0.7%+3)	±(0.7%+3)	±(0.7%+3)
LoZ ACV	600.0V	±(2.0%+3)	±(2.0%+3)	±(2.0%+3)
DC current (A)	600.0µA ~ 20A	±(0.8%+3)	±(0.8%+3)	±(0.8%+3)
AC current (A)	600.0µA ~ 20A	±(1.0%+3)	±(1.0%+3)	±(1.0%+3)
Resistance (Ω)	600.0Ω ~ 60.00MΩ	±(0.8%+2)	±(0.8%+2)	±(0.8%+2)
Capacitance	6.000nF ~ 60.00mF	±(3%+5)	±(3%+5)	±(3%+5)
Frequency	60.00Hz ~ 10.00MHz	±(0.1%+4)		
	60.00Hz ~ 40.00MHz		±(0.1%+4)	±(0.1%+4)
Duty ratio	0.1% ~ 99.9%	±(2.0%+5)	N/A	±(2.0%+5)
Temperature °C	-40 ~ 1000°C		±(1.5%+4°C)	
Temperature °F	-40 ~ 1832°F		±(2.0%+5°F)	
Peaks hold	250µs			$\sqrt{2} * \pm(2\% + 100)$
Features				
Display count		6000	6000	6000
Display interface (HTN)		Single display	Single display	Dual display
Measurement of digital conversion rate	times/s	3	3	5
Measurement of analogue bar conversion rate	times/s	10		20
Analogue bar	31 section	√		√
True RMS		√	√	√
AC voltage frequency response		45 ~ 400Hz	45 ~ 1kHz	45 ~ 5kHz
AC current frequency response		45 ~ 400Hz	45 ~ 1kHz	45 ~ 5kHz
Motor phase sequence measurement	600.0V			
Low pass filter test	√ (1kHz 3dB attenuation)			
Diode/Continuity test		3.5V	3V	3V
Auto/Manual range	√			
Auto power off	√			
Continuity buzzer	√			
Low battery indication	√			
Data hold	√			
MAX/MIN	√			
Functional selection	√			
Electrical torch	√			
Auto backlight	√			
Working temperature	0 °C ~ 40 °C			
2m drop proof	√			
Protection grade	IP65			
General characteristics				
Power supply	9V 6F22 carbon-zinc or 6LR61 alkaline battery			
LCD size	66mm × 51mm			
Device color	Red and grey			
Device weight	473g			
Device size	195mm × 95mm × 58mm			
Standard accessories	Testing probes, battery, carrying bag			
Standard individual packing	Gift box, user manual, point type temperature probe (UT195M only)			
Standard quantity per carton	6pcs			
Standard carton size	580mm × 375mm × 215mm			
Standard carton gross weight				