

UT8000E Series Benchtop Digital Multimeter



● Introduction

The UT8000E series is a new generation of reliable, cost effective, full capabilities digital multi-meters. With measuring DCV, ACV, DCI, ACI, Resistance (2&4 Wire), Capacitance, Inductance, Diode Test, Frequency and Temperature. The series is designed for simple and efficient bench top use, but include providing a variety of auxiliary functions, communication interfaces, software options for data logging and remote programming and supports the UNI-T Neptune Lab laboratory management system to help meet the needs of test and measurement applications in process testing, teaching experiments and inspection occasions.

The series includes four models, UT8802E/03E/04E/05E, providing customers with more choices, it can fit any DMM application with speed, accuracy, reliability, and efficiency well beyond its price.

● Features

- Maximum reading 199999 display count 5½ bit resolution
- Manual and automatic range, TRMS
- Up to 5k rdgs/s sampling rate
- Multiple mathematical operations
- Multifunctional measurement, double display function, Graphical user interface
- Arbitrary sensor measurement
- Built-in thermocouple cold junction compensation
- 1Gb flash memory storage which can support up to 10k data recall
- 4.3" TFT-Lcd, display resolution 480 x 272

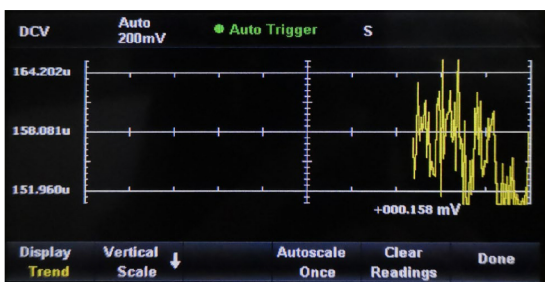
● Design Features



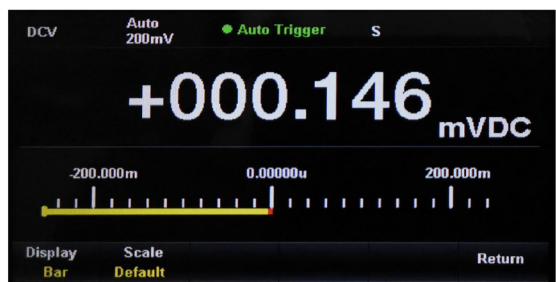
199999 count, 4.3 inch TFT LCD display, Hold measurement function



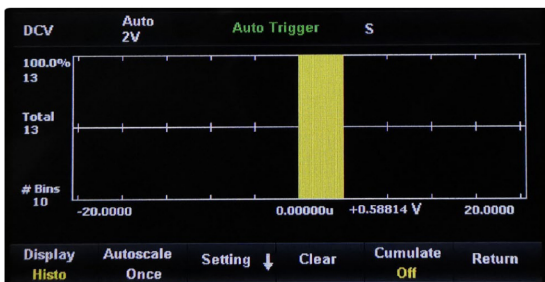
Mathematical operations and reading statistics



Trend curve display



Bar graph display



Histogram display



Dual display function

Technical Specifications

Model	UT8802E	UT8803E	UT8804E	UT8805E
Display count	19999	5999	59999	199999
DCV Accuracy	0.1%	0.3%	0.025%	0.015%
Sampling speed	2~3 rdgs/s	2~3 rdgs/s	2~3 rdgs/s	5k rdgs/s
DC voltage (V)	200mV/2V/20V/200V/1000V	1000V	1000V	1000V
AC voltage (V)	2V/20V/200V/750V	750V	1000V	750V (45Hz~100kHz)
DC current (A)	200μA/2mA/20mA/200mA/20A	10A	10A	10A
AC current (A)	2mA/20mA/200mA/20A	10A	10A	10A
Capacitance (F)	100mF	6mF	60mF	2mF
Resistance (Ω)	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/200MΩ	60MΩ	60MΩ	100MΩ
Inductance (H)	—	100H	—	—
Conductance (nS)	—	—	60nS	—
Temperature (°C/°F)	—	-40°C~1000°C	-40°C~1000°C	-270°C~1370°C
Frequency (Hz)	200Hz~10MHz	600Hz~20MHz	60Hz~60MHz	20Hz~1MHz
Duty cycle (%)	5%~99%	5%~95%	10%~90%	—
Frequency response (Hz)	1kHz	100kHz	100kHz	100kHz
Range	Manual	Manual,Auto	Manual,Auto	Manual,Auto
Input impedance for DCV	10MΩ	10MΩ	10MΩ	< 20V: 10GΩ Other:10MΩ
True RMS	—	√	√	√
Diode/Continuity	√	√	√/—	√
SCR/Transistor hFE	√	√	—	—
Hold	√	√	√	√
LCD backlight	√	√	√	√
AC+DC measurement	—	—	√	—
Data storage	—	—	20000	10000; 1Gb flash memory
Arbitrary sensor measurement	—	—	—	√
Dual display measurement	—	—	—	√
Mathematical operations	—	—	—	√
Interface	USB Device	USB Device	USB Device	USB Host, USB Device, LAN, RS-232

General Characteristics

Power	100V/120V/220V/240V ± 10%, 47Hz~63Hz		AC 100V~120V: 45Hz~440Hz; AC 200V~240V: 45Hz~66Hz
Display	EBTN LCD		4.3 inches TFT LCD
Product net weight	3.1kg		3.7kg
Product size	265mm x 110mm x 320mm		239mm x 109mm x 344mm
Standard quantity per carton	2pcs		
Standard carton measurement	380mm x 330mm x 320mm		
Standard carton gross weight	9kg		9.5kg
			10.5kg

Ordering Information

UT8000E Series	Benchtop Digital Multimeter(Display:199999,0.015%,Range:Auto)	UT8805E
	Benchtop Digital Multimeter(Display:59999,0.025%,Range:Manual/Auto)	UT8804E
	Benchtop Digital Multimeter(Display:5999,0.3%,Range:Manual/Auto)	UT8803E
	Benchtop Digital Multimeter(Display:19999,0.1%,Range:Manual)	UT8802E
Standard Accessories	International standard power cord	—
	USB interface cable	UT-D14
	RS232C interface cable(only UT8805E)	—
	Test leads	—
	simple test lead with alligator	—
Optional accessory	temperature probe (UT8803/4/5E)	—
	GPIB(Only 8805E)	—