

# UNI-T®

## UT8805E

# Benchtop Digital Multimeter Data Sheet



[www.uni-trend.com](http://www.uni-trend.com)

The UT8805E is a benchtop digital multimeter boasting a 200,000 count, offering high precision, multifunctionality, and fully automatic measurements to meet diverse requirements.

### **Basic measurements:**

DC voltage measurement: 200mV, 2V, 20V, 200V, 1000V

DC current measurement: 200μA, 2mA, 20mA, 200mA, 2A, 10A

AC voltage measurement: RMS 200mV, 2V, 20V, 200V, 750V

AC current measurement: RMS 2mA, 20mA, 200mA, 2A, 10A

Resistance measurement: (2-wire, 4-wire) 200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ, 10MΩ, 100MΩ

Capacitance measurement: 2nF, 20nF, 200nF, 2μF, 20μF, 200μF, 2mF

Continuity test: fixed 2kΩ

Diode test: 0V-4V

Frequency measurement: 20Hz-1MHz

Cycle measurement: 1μs-0.05s

Temperature measurement: thermocouple and thermal resistance sensor supported

### **Mathematical functions:**

Maximum, minimum, average, standard deviation, relative measurement, bar chart, histogram, trend chart, dB/ dBm, Pass/Fail, etc.

### **Humanization design**

With easy-operating user interface and help system, Chinese & English menu, dual display and both USB flash drive and local storage supported.

### **Applications:**

Research and education

Research and development

Detection and maintenance

Calibration

Automated testing

## Features:

4.3-inch 480\*272 TFT-LCD

200000 count resolution

Up to 5k reading/s reading speed

True-RMS AC voltage/current measurement

1GB NAND Flash storage, mass storage system and test data

Built-in thermocouple cold junction compensation

Supports standard SCPI remote control command and software of upper computer, the latest mainstream multimeter command set compatible

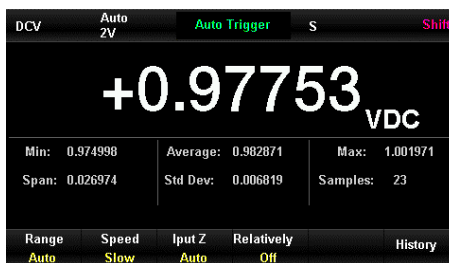
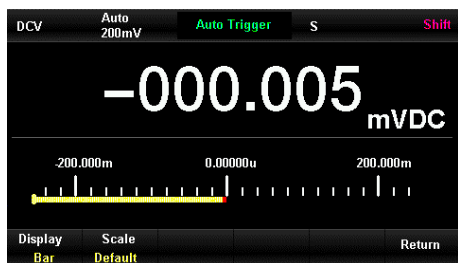
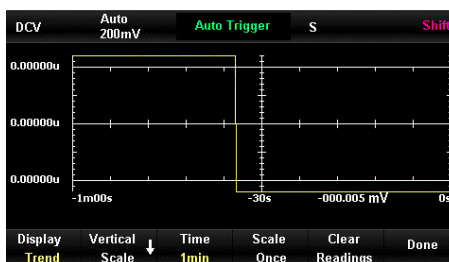
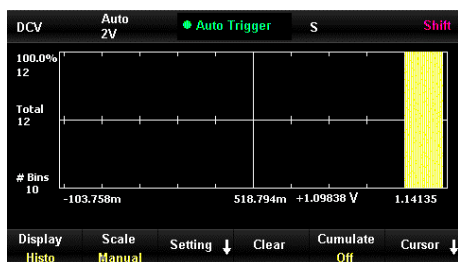
Dual display, Chinese & English menu and built-in help system

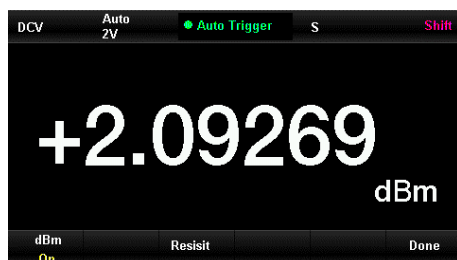
Configuration interfaces: USB Device, USB Host, LAN, RS-232C

Settings and the measured data can be record and read by VXI11, USBTMC and U-disk conveniently

## Design Features

Histogram, trend chart, bar chart、mathematical statistics function, dual display, hold function, dBm function, configuration interface





## Specification:

| DC Characteristics            |                         |                                    |                    | Accuracy $\pm(\% \text{reading} + \% \text{range})^{[1]}$ |                                |                                                       |
|-------------------------------|-------------------------|------------------------------------|--------------------|-----------------------------------------------------------|--------------------------------|-------------------------------------------------------|
| Function                      | Range <sup>[2]</sup>    | Test current<br>or load<br>voltage | Input<br>impedance | 90-day<br>accuracy<br>23°C±5°C                            | 1-year<br>accuracy<br>23°C±5°C | Temperature<br>coefficient<br>0°C -18°C<br>28°C -50°C |
| DC voltage<br>(DCV)           | 200.000mV               |                                    | 10MΩ<br>or >10GΩ   | 0.008+0.004                                               | 0.01+0.004                     | 0.0015+0.0005                                         |
|                               | 2.00000V                |                                    | 10MΩ<br>or >10GΩ   | 0.008+0.003                                               | 0.01+0.003                     | 0.0010+0.0005                                         |
|                               | 20.0000V                |                                    | 10MΩ<br>or >10GΩ   | 0.008+0.004                                               | 0.01+0.004                     | 0.0020+0.0005                                         |
|                               | 200.000V                |                                    | 10MΩ               | 0.012+0.003                                               | 0.015+0.003                    | 0.0015+0.0005                                         |
|                               | 1000.00V <sup>[3]</sup> |                                    | 10MΩ               | 0.012+0.003                                               | 0.015+0.003                    | 0.0015+0.0005                                         |
| DC current<br>(DCI)           | 200.000μA               | <30mV                              |                    | 0.050+0.005                                               | 0.055+0.005                    | 0.003+0.001                                           |
|                               | 2.00000mA               | <0.3V                              |                    | 0.050+0.005                                               | 0.055+0.005                    | 0.002+0.001                                           |
|                               | 20.0000mA               | <30mV                              |                    | 0.070+0.020                                               | 0.095+0.020                    | 0.008+0.001                                           |
|                               | 200.000mA               | <0.3V                              |                    | 0.060+0.008                                               | 0.070+0.008                    | 0.005+0.001                                           |
|                               | 2.00000A                | <0.1V                              |                    | 0.150+0.020                                               | 0.170+0.020                    | 0.013+0.001                                           |
|                               | 10.0000A <sup>[4]</sup> | <0.3V                              |                    | 0.200+0.010                                               | 0.250+0.010                    | 0.008+0.001                                           |
| Resistance <sup>[5]</sup> (R) | 200.0000Ω               | 1mA                                |                    | 0.012+0.005                                               | 0.030+0.005                    | 0.003+0.0006                                          |
|                               | 2.00000kΩ               | 1mA                                |                    | 0.012+0.003                                               | 0.020+0.003                    | 0.003+0.0005                                          |
|                               | 20.0000kΩ               | 100μA                              |                    | 0.012+0.003                                               | 0.020+0.003                    | 0.003+0.0005                                          |

|                 |                          |                  |  |             |             |              |
|-----------------|--------------------------|------------------|--|-------------|-------------|--------------|
|                 | 200.000kΩ                | 10μA             |  | 0.012+0.004 | 0.020+0.004 | 0.003+0.0005 |
|                 | 2.00000MΩ                | 1μA              |  | 0.020+0.004 | 0.040+0.004 | 0.004+0.0005 |
|                 | 10.0000MΩ <sup>[6]</sup> | 500nA            |  | 0.100+0.004 | 0.250+0.004 | 0.010+0.0005 |
|                 | 100.000MΩ                | 500nA   <br>10MΩ |  | 0.800+0.004 | 1.75+0.004  | 0.200+0.0005 |
| Diode test      | 0~2.0000V <sup>[7]</sup> | 1mA              |  | 0.05+0.03   | 0.05+0.03   | 0.005+0.005  |
|                 | 2.0000V~4.0000V          | 1mA              |  | 0.07+0.03   | 0.15+0.03   | 0.005+0.005  |
| Continuity test | 2000Ω                    | 1mA              |  | 0.05+0.03   | 0.05+0.03   | 0.005+0.005  |

**Note:**

[1] The index is obtained after preheating for half an hour, uses slow speed measurement and the calibration temperature is 18°C~28°C.

[2] All scales except DCV 1000V and DCI 10A are allowed to exceed the range by 20%.

[3] Beyond ±500 VDC, error of 0.002 will be added every 1V exceeds.

[4] For continuous current > DC 7A or AC rms7A, it should be disconnected for 30s after connected 20s.

[5] For 4-wire resistance measurement or 2-wire mode with relative operation; ±0.2Ω additional error will be added in 2-wire resistance measurement without relative operation.

[6] The humidity requirement in scales of 10MΩ and 100MΩ is <60%.

[7] The accuracy is only for voltage measurement of input terminal, the typical value of test current is 1mA. The current source change will cause some variation in the voltage drop on the diode junction.

**AC Characteristics** **Accuracy ±(%reading+ %range)<sup>[1]</sup>**

| Function                                 | Range <sup>[2]</sup>      | Range of frequency | 90-day accuracy<br>23°C±5°C | 1-year accuracy<br>23°C±5°C | Temperature coefficient<br>0°C -18°C<br>28°C -50°C |
|------------------------------------------|---------------------------|--------------------|-----------------------------|-----------------------------|----------------------------------------------------|
| True RMS AC voltage <sup>[3]</sup> (ACV) | 200.000 mV                | 20Hz~45Hz          | 1.5+0.10                    | 1.5+0.10                    | 0.01+0.005                                         |
|                                          |                           | 45Hz~20kHz         | 0.19+0.05                   | 0.2+0.05                    | 0.01+0.005                                         |
|                                          |                           | 20kHz~50kHz        | 1.0+0.05                    | 1.0+0.05                    | 0.01+0.005                                         |
|                                          |                           | 50kHz~100kHz       | 3.0+0.05                    | 3.0+0.05                    | 0.05+0.010                                         |
|                                          | 2..00000 V                | 20Hz~45Hz          | 1.5+0.10                    | 1.5+0.10                    | 0.01+0.005                                         |
|                                          |                           | 45Hz~20kHz         | 0.19+0.05                   | 0.2+0.05                    | 0.01+0.005                                         |
|                                          |                           | 20kHz~50kHz        | 1.0+0.05                    | 1.0+0.05                    | 0.01+0.005                                         |
|                                          |                           | 50kHz~100kHz       | 3.0+0.05                    | 3.0+0.05                    | 0.05+0.010                                         |
|                                          | 20..0000 V                | 20Hz~45Hz          | 1.5+0.10                    | 1.5+0.10                    | 0.01+0.005                                         |
|                                          |                           | 45Hz~20kHz         | 0.19+0.05                   | 0.2+0.05                    | 0.01+0.005                                         |
|                                          |                           | 20kHz~50kHz        | 1.0+0.05                    | 1.0+0.05                    | 0.01+0.005                                         |
|                                          |                           | 50kHz~100kHz       | 3.0+0.05                    | 3.0+0.05                    | 0.05+0.010                                         |
|                                          | 200..000 V                | 20Hz~45Hz          | 1.5+0.10                    | 1.5+0.10                    | 0.01+0.005                                         |
|                                          |                           | 45Hz~20kHz         | 0.19+0.05                   | 0.2+0.05                    | 0.01+0.005                                         |
|                                          |                           | 20kHz~50kHz        | 1.0+0.05                    | 1.0+0.05                    | 0.01+0.005                                         |
|                                          |                           | 50kHz~100kHz       | 3.0+0.05                    | 3.0+0.05                    | 0.05+0.010                                         |
|                                          | 750..000 V <sup>[4]</sup> | 20Hz~45Hz          | 1.5+0.10                    | 1.5+0.10                    | 0.01+0.005                                         |

|                                          |                          |              |           |          |             |
|------------------------------------------|--------------------------|--------------|-----------|----------|-------------|
| True RMS AC current <sup>[5]</sup> (ACI) |                          | 45Hz~20kHz   | 0.19+0.05 | 0.2+0.05 | 0.01+0.005  |
|                                          |                          | 20kHz~50kHz  | 1.0+0.05  | 1.0+0.05 | 0.01+0.005  |
|                                          |                          | 50kHz~100kHz | 3.0+0.05  | 3.0+0.05 | 0.05+0.010  |
|                                          | 2.00000 mA               | 20Hz~45Hz    | 1.5+0.10  | 1.5+0.10 | 0.015+0.015 |
|                                          |                          | 45Hz~2kHz    | 0.5+0.10  | 0.5+0.10 | 0.015+0.006 |
|                                          |                          | 2kHz~10kHz   | 2.5+0.20  | 2.5+0.20 | 0.015+0.006 |
|                                          | 20.0000 mA               | 20Hz~45Hz    | 1.5+0.10  | 1.5+0.10 | 0.015+0.005 |
|                                          |                          | 45Hz~2kHz    | 0.5+0.10  | 0.5+0.10 | 0.015+0.005 |
|                                          |                          | 2kHz~10kHz   | 2.5+0.20  | 2.5+0.20 | 0.015+0.005 |
|                                          | 200.000 mA               | 20Hz~45Hz    | 1.5+0.10  | 1.5+0.10 | 0.015+0.005 |
|                                          |                          | 45Hz~2kHz    | 0.3+0.10  | 0.3+0.10 | 0.015+0.005 |
|                                          |                          | 2kHz~10kHz   | 2.5+0.20  | 2.5+0.20 | 0.015+0.005 |
|                                          | 2.00000 A                | 20Hz~45Hz    | 1.5+0.20  | 1.5+0.20 | 0.015+0.005 |
|                                          |                          | 45Hz~2kHz    | 0.5+0.20  | 0.5+0.20 | 0.015+0.005 |
|                                          |                          | 2kHz~10kHz   | 2.5+0.20  | 2.5+0.20 | 0.015+0.005 |
|                                          | 10.0000 A <sup>[6]</sup> | 20Hz~45Hz    | 1.5+0.15  | 1.5+0.15 | 0.015+0.005 |
|                                          |                          | 45Hz~2kHz    | 0.5+0.15  | 0.5+0.15 | 0.015+0.005 |
|                                          |                          | 2kHz~10kHz   | 2.5+0.20  | 2.5+0.20 | 0.015+0.005 |

#### Additional crest factor error (Non-sine wave)<sup>[7]</sup>

| Crest coefficient | Error(%range) |
|-------------------|---------------|
| 1-2               | 0.05          |
| 2-3               | 0.2           |

#### Note:

- [1] The index is obtained after preheating for half an hour, uses slow speed measurement and the calibration temperature is 18°C~28°C.
- [2] All scales except ACV 750V and ACI 10A are allowed to exceed the range by 20%.
- [3] The index is obtained under the sinusoidal signal with amplitude of >5%; When the input is within 1%~5% and the frequency is <50kHz, the additional error, 0.1% of range is added.
- [4] Beyond 400VAC, error of 0.025V will be added every 1V exceeds.
- [5] The index is obtained under the sinusoidal signal with amplitude of >5%; When the input is within 1%~5%, the additional error, 0.1% of range is added.
- [6] For continuous current > DC 7V or AC rms7A, it should be disconnected for 30s after connected 20s.
- [7] when the frequency is < 100Hz

| Frequency and Cycle Characteristics |                           |                    |                             | Accuracy ±(%reading)        |                                                    |
|-------------------------------------|---------------------------|--------------------|-----------------------------|-----------------------------|----------------------------------------------------|
| Features                            | Range                     | Range of frequency | 90-day accuracy<br>23°C±5°C | 1-year accuracy<br>23°C±5°C | Temperature coefficient<br>0°C -18°C<br>28°C -50°C |
| Frequency and cycle                 | 200mV~750V <sup>[2]</sup> | 20Hz~2kHz          | 0.01+0.003                  | 0.01+0.003                  | 0.002+0.001                                        |
|                                     |                           | 2kHz~20kHz         | 0.01+0.003                  | 0.01+0.003                  | 0.002+0.001                                        |

|  |              |            |            |             |
|--|--------------|------------|------------|-------------|
|  | 20kHz~200kHz | 0.01+0.003 | 0.01+0.003 | 0.002+0.001 |
|  | 200kHz~1MHz  | 0.01+0.005 | 0.01+0.006 | 0.002+0.002 |

Note:

[1] The index is obtained after preheating for half an hour.

[2] Besides especially marked, when the frequency is < 100kHz, the index is AC input voltage in 15%~120% scale, and when the frequency is > 100kHz, the index is applicable to scale of 30%~120%. The 750V scale is limited in 750Vrms, and the accuracy in 200mV scale is multiplied the % reading error by 10.

| Capacitance Characteristics                                                                                                                                                                                    |         |                      |                             | Accuracy ±(%reading+ %range) <sup>[1]</sup> |                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------|-----------------------------|---------------------------------------------|----------------------------------------------------|
| Features                                                                                                                                                                                                       | Range   | Maximum test current | 90-day accuracy<br>23°C±5°C | 1-year accuracy<br>23°C±5°C                 | Temperature coefficient<br>0°C -18°C<br>28°C -50°C |
| Capacitance<br>[2]                                                                                                                                                                                             | 2.000nF | 0.5μA                | 2.8+1.0                     | 3+1.0                                       | 0.08+0.002                                         |
|                                                                                                                                                                                                                | 20.00nF | 1μA                  | 1+0.5                       | 1+0.5                                       | 0.02+0.001                                         |
|                                                                                                                                                                                                                | 200.0nF | 10μA                 | 1+0.5                       | 1+0.5                                       | 0.02+0.001                                         |
|                                                                                                                                                                                                                | 2.000μF | 100μA                | 1+0.5                       | 1+0.5                                       | 0.02+0.001                                         |
|                                                                                                                                                                                                                | 20.00μF | 1mA                  | 1+0.5                       | 1+0.5                                       | 0.02+0.001                                         |
|                                                                                                                                                                                                                | 200.0μF | 1mA                  | 1+0.5                       | 1+0.5                                       | 0.02+0.001                                         |
|                                                                                                                                                                                                                | 2.000mF | 1mA                  | 2+0.5                       | 2+0.5                                       | 0.02+0.001                                         |
| <b>Note:</b><br>[1] The index is obtained after preheating for half an hour.<br>[2] The parameter is applicable to capacitance between 1%~120% in 2nF scale. In other scales, capacitance is between 10%~120%. |         |                      |                             |                                             |                                                    |

| Temperature Characteristics                                                                       |                             |                |                       | Accuracy ±(%reading+ %range) <sup>[1]</sup> |                                                    |
|---------------------------------------------------------------------------------------------------|-----------------------------|----------------|-----------------------|---------------------------------------------|----------------------------------------------------|
| Function                                                                                          | Type of probe               | Model of probe | Operating temperature | 1-year accuracy<br>23°C±5°C                 | Temperature coefficient<br>0°C -18°C<br>28°C -50°C |
| Temperature                                                                                       | RTD <sup>[2]</sup>          | α=0.00385      | -200°C~660°C          | 0.16°C                                      | 0.008+0.002                                        |
|                                                                                                   | Thermocouple <sup>[3]</sup> | B              | 0°C~1820°C            | 0.76°C                                      | 0.14°C                                             |
|                                                                                                   |                             | E              | -270°C~1000°C         | 0.5°C                                       | 0.02°C                                             |
|                                                                                                   |                             | J              | -210°C~1200°C         | 0.5°C                                       | 0.02°C                                             |
|                                                                                                   |                             | K              | -270°C~1370°C         | 0.5°C                                       | 0.03°C                                             |
|                                                                                                   |                             | N              | -270°C~1300°C         | 0.5°C                                       | 0.04°C                                             |
|                                                                                                   |                             | R              | -50°C~1760°C          | 0.5°C                                       | 0.09°C                                             |
|                                                                                                   |                             | S              | -50°C~1760°C          | 0.6°C                                       | 0.11°C                                             |
|                                                                                                   |                             | T              | -270°C~400°C          | 0.5°C                                       | 0.03°C                                             |
| Note:                                                                                             |                             |                |                       |                                             |                                                    |
| [1] The index is obtained after preheating for half an hour and the probe error is not contained. |                             |                |                       |                                             |                                                    |

[2] The index is suitable for 2-wire/4-wire relative measurement.

[3] Built-in cold junction compensation is near the rubber tip of test leads and its measuring error is  $\pm 2^{\circ}\text{C}$ .

## Measuring methods and other features

### DC voltage

|                             |                                                                                                                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Input resistance            | 10M $\Omega$ or > 10G $\Omega$ for scales of 200mV, 2V and 20V<br>10M $\Omega$ $\pm 2\%$ for scale of 20V, 200V and 1000V |
| Input bias current          | < 30 pA, 25 $^{\circ}\text{C}$ test                                                                                       |
| Input protection            | DC 1000V or AC 750V for all ranges                                                                                        |
| Common mode rejection ratio | 120dB (maximum $\pm 500$ VDC for 1k $\Omega$ balancing resistance of LO test lead)                                        |
| Normal mode rejection ratio | 60 dB (slow reading speed)                                                                                                |

### Resistance

|                  |                                     |
|------------------|-------------------------------------|
| Measuring method | 4-wire/2-wire resistance selectable |
| Input protection | DC 1000V or AC 750V for all ranges  |

### DC current

|                  |                                                                                      |
|------------------|--------------------------------------------------------------------------------------|
| Current diverter | Sample resistance 100 $\Omega$ in 200mA and 2mA scale                                |
|                  | Sample resistance 1 $\Omega$ in 20mA and 200mA scale                                 |
|                  | Sample resistance 8m $\Omega$ in 2A and 10A scale                                    |
| Input protection | 250mA, 250V replaceable fast fuse on rear panel<br>Internal 10A, 250V Fast blow fuse |

### Continuity/diode test

|                      |                                                                         |
|----------------------|-------------------------------------------------------------------------|
| Measuring method     | Use constant flow source of 1mA $\pm 5\%$ measure resistance or voltage |
| Buzzer               | Yes                                                                     |
| Continuity threshold | Adjustable                                                              |
| Input protection     | DC 1000V or AC 750V for all ranges                                      |

### True RMS AC voltage

|                  |                                                                              |
|------------------|------------------------------------------------------------------------------|
| Measuring method | AC coupling true RMS measurement, maximum 1000V DC offset in arbitrary range |
| Crest factor     | Crest factor $\leq 3$ in full range                                          |



|                                     |                                                                                                                                               |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Input impedance                     | 1M $\Omega$ ±2% in all ranges with < 100 pF in parallel                                                                                       |
| AC filter bandwidth                 | 20Hz~100kHz                                                                                                                                   |
| Common mode rejection ratio         | 60 dB (for 1k $\Omega$ balancing resistance of LO test lead and < 60Hz, maximum ±500 VDC)                                                     |
| <b>True RMS AC current</b>          |                                                                                                                                               |
| Measuring method                    | Coupling DC to shunt resistor, and coupling AC to true RMS measurement (measure input AC component)                                           |
| Crest factor                        | Crest factor ≤3 in full range                                                                                                                 |
| Maximum input                       | RMS current < 10 A with DC component                                                                                                          |
| Shunt resistor                      | 0.008 $\Omega$ in 2A and 10A scale, 1 $\Omega$ in 20mA and 200mA scale, 100 $\Omega$ in 200 $\mu$ A and 2mA scale                             |
| Input protection                    | 250mA, 250V replaceable fast fuse on rear panel<br>Inter 10A, 250V Fast blow fuse                                                             |
| <b>Cycle and frequency</b>          |                                                                                                                                               |
| Measuring method                    | Measure the time of signal cycle number and then calculate the frequency                                                                      |
| Notice                              | Error will be introduced for low voltage and low frequency signal by all frequency meter                                                      |
| <b>Capacitance measurement</b>      |                                                                                                                                               |
| Measuring method                    | Charge the capacitance by constant current, and measure the average speed of voltage rising                                                   |
| Connecting method                   | 2-wire                                                                                                                                        |
| Input protection                    | DC 1000V or AC 750V for all ranges                                                                                                            |
| <b>Arbitrary sensor measurement</b> |                                                                                                                                               |
| Measuring method                    | Thermocouple, DCV, DCI, $\Omega$ (2-wire/4-wire), frequency output type sensor and built-in thermocouple cold junction compensation supported |
| Output polarity                     | Positive/negative selectable                                                                                                                  |
| Others                              | Preset conversions for ITS-90, Pt100 and Pt385 of B, E, J, K, N, R, S, T type thermocouple                                                    |
| <b>Frequency response</b>           |                                                                                                                                               |
| True RMS measurement                | 100kHz                                                                                                                                        |
| <b>Sampling and trigger</b>         |                                                                                                                                               |
| Maximum measuring speed             | 5000rdgs/s (2.5 reading/s; 10 reading/s; 5k reading/s)                                                                                        |

|                         |                                                                                                            |                                   |
|-------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Trigger delay           | 6ms~10000ms optional                                                                                       |                                   |
| External trigger input  | Input level                                                                                                | TTL compatible                    |
|                         | Trigger condition                                                                                          | Rising edge/falling edge optional |
|                         | Input impedance                                                                                            | > 20kΩ /400pF (DC coupling)       |
|                         | Minimum pulse width                                                                                        | 500μs                             |
| VMC output              | Level                                                                                                      | TTL compatible (input ≥1kΩ load)  |
|                         | Output polarity                                                                                            | Positive/negative selectable      |
|                         | Output impedance                                                                                           | 200Ω (typical)                    |
| History recording       |                                                                                                            |                                   |
| Volatile memory         | 10k reading record                                                                                         |                                   |
| Non-volatile memory     | 1GB NAND Flash storage, mass storage system and test data                                                  |                                   |
|                         | 6 sets of preset value configuration                                                                       |                                   |
|                         | External U-disk expansion is supported                                                                     |                                   |
| Mathematical functions  |                                                                                                            |                                   |
| Mathematical operations | Pass/Fail, Relative, min/max/average, standard deviation, dBm, dB, Hold, histogram, trend chart, bar chart |                                   |
| Interfaces              |                                                                                                            |                                   |
| Interfaces type         | USB Host, USB Device, LAN , RS-232C                                                                        |                                   |

## General Specification:

### Power supply:

AC 90V ~ 110V, 45 ~ 440Hz

AC 110V ~ 132V, 45 ~ 440Hz

AC 200V ~ 240V, 45 ~ 66Hz

AC 216V ~ 264V, 45 ~ 66Hz

Power dissipation: MAX 20W

## Mechanical features:

Size: 260mm\*116mm\*332mm

Weight: 4.4kg

Color: off white and grey

## Other features:

**Accurate operating environment:** 0℃~28℃ <90%; 28℃ ~40℃ <75%; 40℃ ~55℃ <50% (no condensation)

**Storage environment:** -20℃ ~70℃ , <95%; the instrument needs to run continuously for at least 7 days after high humidity storage.

**Altitude:** ≤2000 m

**Vibration:** MIL-T-28800E, category III, class 5 (only for sine wave)

**Electromagnetic compatibility:** complies with low-voltage command (2004/108/EC) and standard EN61326-1:2013.

**Safety:** Low Voltage Directive 2014/35/EU , and standard EN 61010-1:2010 + A1:2019, EN IEC 61010-2-030:2021+A11:2021

Remote interface 10 / 100Mbit LAN, USB Device, USB Host, RS-232C

**Programming language:** The latest mainstream multimeter SCPI command set compatible

**Preheat:** 30 minutes

## Package:

|                            |        |
|----------------------------|--------|
| UT8805E device-----        | 1      |
| Three-core power line----- | 1      |
| Test leads-----            | 1 pair |
| USB connecting line-----   | 1      |
| RS232 connecting line----- | 1      |
| UT8805E quick guide-----   | 1      |
| UT8805E warranty card----- | 1      |



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