

DC Volts (p44)

Range	Resolution	Accuracy	Input Impedance	Fixed Value Input
220mV	0.01mV	±(0.1%+5)	Around >3000MΩ	1000V dc / 750V ac
2.2V	0.0001V	±(0.1%+2)	Around 10M	
22V	0.001V			
220V	0.01V			
1000V	0.1V	±(0.1%+5)		

AC Volts (p48)

Range	Resolution	Accuracy		Input Impedance	Fixed Value Input
		45~1kHz	>1kHz~10kHz		
220mV	0.01mV	±(1.0%+10)	±(1.5%+50)	Around >3000MΩ	1000V dc / 750V ac
2.2V	0.0001V	±(0.8%+10)	±(1.2%+50)	Around 10MΩ	
22V	0.001V				
220V	0.01V				
750V	0.1V	±(1.2%+10)	±(3.0%+50)		

- True RMS is applicable from 10% of range to 100% of range.
- AC crest factor can be up to 3.0 except 1000V where it is 1.5.
- A residual reading of 10 digits with test leads shorted, will not affect stated.

DC Current (p51)

Range	Resolution	Accuracy	Overload Protection
220μA	0.01μA	(0.5%+10)	Fuse 1: F1A H 240V (CE), Φ6 x 25mm
2200μA	0.1μA		
22mA	0.001mA		
220mA	0.01mA		
10A	0.001A	(1.2%+50)	Fuse 2: F10A H 240V (CE), Φ6 x 25mm

Remarks:

- When ≤5A: Continuous measurement is allowed.
- When >5A: Continuous measurement less than 10 seconds at an interval more than 15 minutes.

AC Current (p54)

Range	Resolution	Accuracy		Overload Protection
		45~1kHz	>1kHz~10kHz	
220μA	0.01μA	(0.8%+10)	(1.2%+50)	Fuse 1: F1A H 240V (CE), Φ6 x 25mm
2200μA	0.1μA			
22mA	0.001mA	(1.2%+10)	(1.5%+50)	
220mA	0.01mA			
10A	0.001A	(1.5%+10)	>1kHz~5kHz (2.0%+50)	Fuse 2: F10A H 240V (CE), Φ6 x 25mm

Remarks:

- When ≤5A: Continuous measurement is allowed.
- When >5A: Continuous measurement less than 10 seconds at an interval more than 15 minutes.
- True RMS is applicable from 10% of range to 100% of range.
- AC crest factor can be up to 3.0 except 1000V where it is 1.5.
- A residual reading of 10 digits with test leads shorted, will not affect stated.

Resistance (p56)

Range	Resolution	Accuracy	Overload Protection	Remark
220Ω	0.01Ω	±(0.5%+10)	1000V dc / 750V ac	When measuring below 2kΩ, apply REL Δ to ensure measurement accuracy.
2.2kΩ	0.0001kΩ			
22kΩ	0.001kΩ			
220kΩ	0.01kΩ			
2.2MΩ	0.0001MΩ			
22MΩ	0.001MΩ	±(0.8%+10)		
220MΩ	0.01MΩ	±(1.5%+10)		
220MΩ	0.01MΩ	±(3.0%+50)		

Continuity (p60)

Model	Resolution	Overload Protection
UT61E	0.01Ω	1000Vdc / 750Vac

- UT61E:
 - Open circuit voltage is around -1.2V.
 - Broken circuit resistance value is around >30Ω, the buzzer does not beep.
 - Good circuit resistance value is ≤10Ω, the buzzer beeps continuously.

Capacitance (p58)

Range	Resolution	Accuracy	Overload Protection	Remark
22nF	0.001nF	±(3.0%+5)	1000V dc / 750V ac	There is around 50pF residual reading when the circuit is open.
220nF	0.01nF			
2.2μF	0.0001μF			
22μF	0.001μF			
220μF	0.01μF	±(4.0%+5)		To measure a small value of capacitance, use REL to ensure accuracy.
2.2mF	0.0001mF			
22mF	0.001mF	unspecified		
220mF	0.01mF			

Frequency (p59)

Model	Range	Accuracy	Maximum Resolution
UT61A, B, C, D	10Hz~10MHz	(0.1%+4)	0.01Hz
UT60E	10Hz~220MHz	(0.01%+5)	0.001Hz

- Overload Protection: 1000Vdc/750V ac
- Input Amplitude: (DC electric level is zero)
 - UT61A, B, C, D:
 - When 10Hz ~ 10MHz: 200mV ≤ a ≤ 30Vrms
 - UT61E:
 - When 10Hz ~ 10MHz: 300mV ≤ a ≤ 30Vrms
 - When >10MHz ~ 40MHz: 400mV ≤ a ≤ 30Vrms
 - When > 40MHz: unspecified
 - When measuring on line frequency or duty cycle under AC Voltage and Current measurement mode, the input amplitude and frequency response must satisfy the following requirement:
 - Input amplitude ≥ range x 30%
 - Frequency response: UT61A and B ≤ 400Hz
 - UT61C, UT61D and UT61E ≤ 1kHz

Diode (p60)

Model	Resolution	Remarks	Overload Protection
UT61A, UT61B, UT61C and UT61D	0.001V	Open circuit voltage around 2.8V	1000Vdc / 750Vac
UT61E	0.0001V		

General Specs (p42-43)

General Specifications

- Maximum Voltage between any Terminals and Grounding: Refer to the different ranges input protection voltage..
- Δ Fused Protection for 1A Input Terminal: 1A H 240V Φ6x25mm.
- Δ Fused Protection for 10A Input Terminal: 10A H 240V Φ6x25mm.
- UT61E: Maximum reading 22000, analogue bar graph 46 segments
- Measurement Speed: Updates 2~3 times/second.
- Range: Auto or Manual
- Polarity Display: Auto
- Overload indication: Display OL
- Battery Deficiency: Display
- Temperature:
 - Operating: 0°C to +40°C (32°F to +104 °F).
 - Storage: -10°C to +50°C (14 °F to +122°F).
- Relative Humidity:
 - ≤75% @ 0°C ~ 30°C below
 - ≤50% @ 30 - 40°C.
- Battery Type: One piece of 9V (NEDA1604 or 6F22 or 006P).
- Under the influence of radiated Radio-Frequency electromagnetic Field phenomenon, the captioned model have a measurement error, it will be back to normal when the interference is removed
- Dimensions (HxWxL): 180 x 87 x 47 mm.
- Weight: Approximate 370g (battery included).
- Safety/Compliances:
 - IEC61010 CAT.III 1000V, CAT.IV 600V overvoltage and double insulation standard.
 - Certifications:

Accuracy Specifications

Accuracy ± a% reading + b digits guarantee for 1 year.
Operating temperature 18°C~28°C.
Relative humidity <75%.