Metrix+™
Innovative Excellence

DIGITAL MULTIMETER

171TRMS+

Reliable

Features



- 6000 count True RMS
- Auto-ranging, with uA/mA/A selection
- Upto 1000V AC
- Large backlit LCD display with auto-power off
- Max/Min and Data hold
- NCV with buzzer indication
- Overload protection
- Low Battery indication
- Polarity indication

Technical Specifications

Model	***Metrix+* 171TRMS+**		
Safety standard	IEC 61010, CAT III 1000V		
DC Voltage (Input resistance ~10MΩ)	**Range**	**Resolution**	**Accuracy**
	6V ~ 600V	1mV ~ 0.1V	±(0.5% + 5)
	1000 V	1V	±(0.8% + 5)
AC Voltage(True RMS) (Input resistance ~10MΩ)	**Range**	**Resolution**	**Accuracy**
	6V ~ 600V	1mV ~ 0.1V	±(1.2% + 5)
	1000 V	1V	
DC Current	**Range**	**Resolution**	**Accuracy**
	600uA ~ 600mA	0.1uA ~ 0.1mA	±(1% + 5)
	6A ~ 20A	0.001A ~ 0.01A	±(2% + 5)
AC Current (True RMS)	**Range**	**Resolution**	**Accuracy**
	600uA ~ 600mA	0.1uA ~ 0.1mA	±(1.5% + 5)
	6A ~ 20A	0.001A ~ 0.01A	±(2% + 10)
Resistance	**Range**	**Resolution**	**Accuracy**
	600Ω ~ 6MΩ	0.1Ω ~ 0.001MΩ	±(0.8% + 5)

	60MΩ	0.01MΩ	±(2% + 5)
Capacitance	**Range**	**Resolution**	**Accuracy**
	10nF	0.001nF	±(3% + 20)
	100nF ~ 1mF	0.01nF ~ 1uF	±(3% + 5)
	10mF ~ 100mF	0.001mF ~ 0.01mF	±(10% + 5)
Temperature	**Range**	**Resolution**	**Accuracy**
	-50 ~ 400C	1C	±(1.2% + 4)
	401 ~ 1000C	1C	±(1.9% + 15)
	-58F ~ 750F	1F	±(1.2% + 6)
	751F ~ 1832F	1F	±(1.9% + 25)
Frequency	**Range**	**Resolution**	**Accuracy**
	10Hz ~ 10MHz	0.001Hz ~ 0.01MHz	±(0.5% + 3)
Duty Ratio	**Range**	**Resolution**	**Accuracy**
	1% ~ 99%	0.1%	±(0.5% + 3)
Diode	Display of similar diode positive voltage. Measuring condition: Positive DC electric current 1mA, reverse DC voltage approximate 3.3V		
Continuity	When the transited resistance is smaller than about 50Ω,the buzzer beeps. Test condition: Open-circuit voltage is about 1V.		
Additional functionalities	Diode, continuity, backlight, NCV, low battery indication, auto power off, max, min, relative value, data hold		
Display	6000 counts backlit LCD		
Fuse	uA, mA, Gear fuse F630mA/250V; A Gear Fuse :F20A/250V		
Operating temperature	0C ~ 40C, 75% RH max		
Storage temperature	-10C ~ 50C, 85% RH max		
Power	2 X 1.5V AA		
Size & weight	189 x 89 x 55mm, approx. 380g(incl. battery)		
Standard Accessories	Main unit, test leads, temperature probe, user manual, battery		

Model and Specifications subject to change without notice.