Metrix+™

Innovative Excellence

Digital Multimeter
Metrix+ 31 & 31C

Features

Model	31	31C
DC Voltage	√	√
AC Voltage	√	√
DC Current	√	√
Resistance	√	√
Temperature	-	√
Diode	√	√
Continuity	√	√
Battery Test	√	-
Backlight	√	√

Technic specification

DC Voltage

range	Accuracy	resolution
200mV	± （ 0.5%+2 ）	100μV
2V		1mV
20V		10mV
200V		100mV
600V	± （ 0.8%+2 ）	1V

Input impedance:1MW

AC Voltage

range	Accuracy	resolution
200V	±（1.5%+10）	100mV
600V	±（1.5%+10）	1V

Frequency range: 40Hz-400Hz.
Overload protection: peak value 600V for AC virtual value
Reveal: Average (the average of the virtual value of sine).
Input impedance: 450kΩ

DC Current

range	Accuracy	resolution	input impedance
200uA	±（1.0%+2）	100nA	1kΩ
2mA		10nA	100Ω
20mA		10uA	11Ω
200mA	±（1.2%+2）	100uA	2Ω
10A	±（2%+5）	10mA	0.01Ω

Overload protection:0.2A/250V fuse
10A range not fuse protect,10s at most

Resistance

range	accuracy	resolution
200W	±（0.8+5）	0.1W
2kW		1W
20kW		10W
200kW		100W
2MW	±（1%+2）	1kW
20MW	±（1%+5）	10kW
200MW	±（2%+15）	100kW

In position 200MW, test lead short circuit and reveal number 10(more or less) after point.
Subtract the number 10(more or less) from reading, you get the final result.
Input protection: max 220V

Temperature for (only for 31C)

range	resolution	accuracy	
-40ºC~ +1000ºC	1ºC	<150ºC	±(3%+2)
		>150ºC	±3%

Diode test
Test voltage is approx. 2.8V,current is1.5mA
Indicate forward voltage drop of diode unit : kW

Continuity test
Test voltage is approx. 2.8V,current is1.5mA
The buzzer will beep when conductance resistance approx. <30

Battery test (Only for 31)
Load resistance is about 1 kW in the Measurement
Indicate measured battery output voltage values when 1 kW overloading