3.1 General Features

3.1.1 take the CMOS big scale integrated circuit as the core, in AC / DC voltage, the AC/DC electric current, the resistance, the frequency and the electric capacity measure it can automatically transform the measuring range, making it more convenient.

3.1.2 greatest display: 6000 Counts (3 6/7)

3.1.3 has the function of back light, data hold, the maximum/ minimum value hold measure.

3.1.4 automatic cathode display: Displays " - "

3.1.5 batteries insufficient display: Displays "⊟".

3.1.6 Auto power OFF

After turning on the instrument and without turning the function switch or pressing any button, the instrument will automatically enter into sleep mode after 10 minutes,to save battery power.when it is in the sleep mode you can press the SELECT key to wake up the instrument. If you don't need the automatic sleep mode, you should hold down the SELECT key to turn on the instrument, and then the symbol"☉" will not be display on the LCD.

3.1.7 working condition：0°C~40°C，75%RH（max）

3.1.8 storage environment：-10°C~60°C，80%RH（max）

3.1.9 battery：9V(6F22 or equivalent)

3.1.10 external dimensions : 191（length）94（width）49（height）mm

3.1.11 weight：approximately 400g（contain battery）

3. 2 technical index

3. 2. 1 DCV

Range	Accuracy	Resolution
600mV		0.1mV
6V	±(0.5%+5d)	1mV
60V		10mV
600V		100mV
1000V	±(0.8%+5d)	1V

Input resistance：10MΩ。

Overload protection :DC/AC peak value1000V。

3. 2. 2 ACV

Range	Accuracy	Resolution
600mV		0.1mV
6V	±(1.2%+5d)	1mV
60V		10mV
600V		100mV
700V	±(1.5%+5d)	1V

Input resistance : 10MΩ。

Frequency: 10Hz~1kHz (Warning: Frequency for square wave accuracy is specified from 10Hz to 400Hz)。

display: TRUE RMS(sinusoidal waveform RMS calibration)。

Overload protection:250V at mV range,DC1000V or peak value AC1000V at V range。

3.2.3 DCA

range	Accuracy	Resolution
600μA	±(1%+5d)	0.1μA
6000μA		1μA
60mA	±(1.5%+5d)	0.01mA
600mA		0.1mA
6A	±(2%+5d)	1mA
10A		10mA

Overload protection ： μA/mA:F1 A/250V with fuse ，

10A: F10 A/250V with fuse。

⚠greatest input electric current：10A（less than 10 seconds）。

voltage drop measure: full measure range is 600mV。

3.2.4 ACA

range	Accuracy	Resolution
600μA	±(1%+5d)	0.1μA
6000μA		1μA
60mA	±(1.8%+5d)	0.01mA
600mA		0.1mA
6A	±(3%+5d)	1mA
10A		10mA

Overload protection: μA/mA:F1 A/250V with fuse，10A F1 0A/250V fuse。

Voltage drop measure: full measure range is 600mV(10A is 100mV)。

Frequency: 10Hz~1kHz (Warning: Frequency for square wave accuracy is specified from 10Hz to 400Hz)。

display: TRUE RMS(sinusoidal waveform RMS calibration)。

⚠ greatest input electric current：10A（less than 10 seconds）。

3.2.5 resistance Ω

range	Accuracy	Resolution
600Ω	±(0.8%+5d)	0. 1Ω
6KΩ		1Ω
60KΩ		10Ω
600KΩ		100Ω
6MΩ		1KΩ
60MΩ	±(2%+5d)	10KΩ

Overload protection ： 250Vvirtual value.

Plough voltage approximately 0.5V

3.2.6 CAP

Range	Accuracy	Resolution
10nF	± (3%+5d)	0.001nF
100nF		0.01nF
1uF		0.1nF
10uF		1 nF
100uF		10nF
1000uF		100nF
10mF	± (5%+5d)	1uF

Overload protection ： 250Vvirtual value.

3.2.7 FREQ

Range	Accuracy	Resolution
10Hz	±(0.5%+3d)	0.01Hz
100Hz		0.1 Hz
1kHz		1 Hz
10kHz		10 Hz
100kHz		100 Hz
1MHz		1k Hz
10MHz		10k Hz

Overload protection ： 250Vvirtual value, input delicacy:1V。

Caution：if the measured frequency is above 30V, please press
"Hz/DUTY" key at AC electric voltage measuring range to get to the
frequency function, then carry on measure。

3.2.8 occupancy and vacancy ratio

Measure range	Accuracy	Resolution
1%~99%	±(0.5%+3d)	0. 1%

Overload protection：250Vvirtual value。

3.2.9temperature (general type)

Function	range	Resolution	Accuracy
TEMP	-30~400℃	1℃	±1.2%±4d
	400~1000℃	1℃	±1.9%±15d
	-40~400 °F	1°F	±1.2%±6
	400~1832 °F	1°F	±1.9%±25

Overload protection 250V

3. 2. 10 Diode positive voltage ▶|

Display of similar diode positive voltage. Measuring condition：positive
DC electric current 2mA， reverse DC voltage approximate 3.2V。

3. 2. 11 Connection & disconnection measure

When the transited resistance is smaller than about 50Ω,the buzzer
beeps.Measuring condition： plough voltage is about 0.5V。