

## SPECIFICATION

Accuracies are guaranteed for 1 year, 23°C±5°C , less than 75%RH.

### 1. DC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200mV	100 µV	± 0.5% ± 5D
2000mV	1mV	
20V	10mV	
200V	100mV	
1000V	1V	± 1.0% ± 5D

Input impedance: 1MΩ

Max. input voltage: 1000V DC or 750V AC rms ( for 200mV range:  
500V DC or 350VAC rms ).

### 2. AC VOLTAGE

RANGE	RESOLUTION	ACCURACY
200V	100mV	± 1.2% ± 10D
750V	1V	

Frequency response:45-400Hz

Max.input voltage: 750V AC rms

Display: sine wave rms. average response

### 3. DC CURRENT

RANGE	RESOLUTION	ACCURACY
200 $\mu$ A	100nA	$\pm 1.0\% \pm 5D$
2000 $\mu$ A	1 $\mu$ A	
20mA	10 $\mu$ A	
200mA	100 $\mu$ A	$\pm 1.2\% \pm 5D$
10A	10mA	$\pm 2.0\% \pm 5D$

Overload protection: F 250mA/250V Fused (10A unfused)

### 4. RESISTANCE

RANGE	RESOLUTION	ACCURACY
200 $\Omega$	0.1 $\Omega$	$\pm 1.2\% \pm 5D$
2000 $\Omega$	1 $\Omega$	$\pm 1.0\% \pm 5D$
20K $\Omega$	10 $\Omega$	
200K $\Omega$	100 $\Omega$	
2000K $\Omega$	1K $\Omega$	$\pm 1.2\% \pm 5D$

Max. open circuit voltage: about 3V.

### 5. TEMPERATURE

RANGE	RESOLUTION	ACCURACY
0°C~+1000°C	1°C	$\pm 3^{\circ}\text{C} \pm 2D < 150^{\circ}\text{C}$
		$\pm 3\% > 150^{\circ}\text{C}$

### 6. hFE

V<sub>cc</sub> about 3V, I<sub>b</sub> about 10 $\mu$ A, display hFE 1-1000

## 7. DIODE AND BUZZER

Diode: Testing Voltage about 2.8V, current about 1mA. The approximate forward voltage drop in mV will be displayed.

Buzzer: The buzzer will sound when it is less than about 50Ω.

## 8. SIGNAL OUTPUT


Signal output: square wave ( 50Hz ) or sine wave ( 1000Hz ).

Level output: 5Vp-p

## 9. BATTERY TEST

Range	Description	Test Condition
1.5V	The working voltage of the battery will be displayed on the LCD, so that the quality of the battery can be judged.	The working current is about 20mA.
9V		The working current is about 5mA.

## GENERAL SPECIFICATION

- Display: ----- 3 1/2 digits LCD with a max. reading of 1999
- Polarity: ----- Auto polarity indication.
- Overrange indication: ----- Only figure "1" on the display.
- Operating environment: --- temp. 0 ~ 40\*; relative humidity<75%.
- Storage temperature: ----- -15\* ~ 50\*; relative humidity<90%.
- Battery: ----- 9V 6F22/1.5V X 2 AA ( for DT830BL only )
- Low battery indication: ---- " " or "BAT" appears on the display.
- Dimensions: ----- 139mm×78mm×40mm
- Weight: ----- 170g
- Power consumption: ----- 20mW