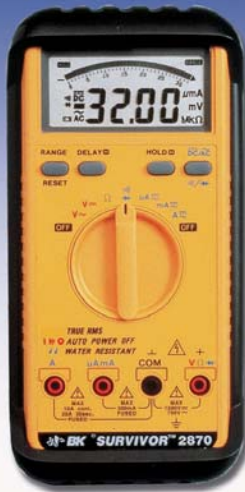
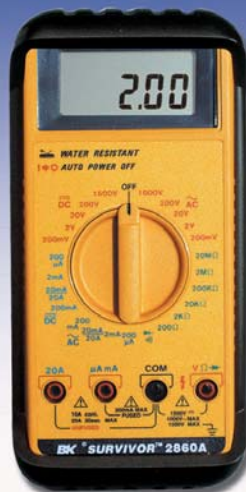


# Survivor<sup>®</sup> Multimeters



2870



2860A



## The "Survivor" name says it all!

- Heavy Duty 1500VDC rating
- Ruggedized construction
- Includes rubber boot
- Withstands 5-foot drop
- Extra large, high contrast LCD display
- Gasket sealed against dirt and contaminants
- Water resistant
- High energy fused on all current ranges
- Auto power off saves batteries
- Built in probe holders
- Non-slip grip
- Extensive overload protection

### Model 2870

- 0.25% DCV accuracy
- True RMS
- Autoranging
- Analog bargraph
- 3 3/4 digit, 3200 count
- Data hold, delay hold

### Model 2860A

- 0.5% DCV accuracy
- Manual ranging
- 3 1/2 digit, 2000 count
- Large 0.8" LCD display

## Specifications

	2870	models 2860A
DC Volts	Auto/Manual ranging	Manual ranging
Ranges	320mV, 3.2V, 32V, 320V, 1500V	200mV, 2V, 20V, 200V, 1500V
Resolution	100 $\mu$ V, 1mV, 10mV, 100mV, 1V	100 $\mu$ V, 1mV, 10mV, 100mV, 1V
Accuracy	$\pm(0.25\% \text{ rdg} + 2 \text{ dgt})$	$\pm(0.5\% \text{ rdg} + 1 \text{ dgt})$
Overload protection	1500V peak	1500V peak
Input Impedance	10M $\Omega$	10M $\Omega$
AC Volts	Auto/Manual ranging	Manual ranging
	True RMS	avg. responding, rms reading
Ranges	3.2V, 32V, 320V, 750V	200mV, 2V, 20V, 200V, 1000V
Resolution	1mV, 10mV, 100mV, 1V	100 $\mu$ V, 1mV, 10mV, 100mV, 1V
Accuracy	$\pm(1.3\% \text{ rdg} + 3 \text{ dgt})$	$\pm(1.25\% \text{ rdg} + 4 \text{ dgt})$
Frequency Response	40Hz - 1kHz	40Hz - 500Hz
Overload Protection	1100V peak	1500V peak
Input Impedance	10M $\Omega$	10M $\Omega$
Current	Auto/Manual ranging	Manual ranging
	AC True RMS	AC avg. responding, rms reading
Ranges	320 $\mu$ A, 3.2mA, 32mA, 300mA, 20A*	200 $\mu$ A, 2mA, 20mA, 200mA, 20A*
Resolution	0.1 $\mu$ A, 1 $\mu$ A, 10 $\mu$ A, 100 $\mu$ A, 10mA	0.1 $\mu$ A, 1 $\mu$ A, 10 $\mu$ A, 100 $\mu$ A, 10mA
Accuracy (DC)	$\pm(1.0\% \text{ rdg} + 2 \text{ dgt})$	$\pm(1.0\% \text{ rdg} + 1 \text{ dgt})$
Accuracy (AC)	$\pm(2.0\% \text{ rdg} + 3 \text{ dgt})$ for 20A	$\pm(2.0\% \text{ rdg} + 3 \text{ dgt})$ for 20A
	$\pm(2.5\% \text{ rdg} + 3 \text{ dgt})$	$\pm(1.5\% \text{ rdg} + 3 \text{ dgt})$
	$\pm(2.5\% \text{ rdg} + 5 \text{ dgt})$ for 20A	$\pm(2.5\% \text{ rdg} + 4 \text{ dgt})$ for 20A
Frequency Response	40Hz - 1kHz	40Hz-500Hz
Overload Protection	High energy 600V, 1A full for $\mu$ A/mA, High energy 600V, 15A for 20A	
Resistance	Auto/Manual ranging	Manual ranging
Ranges	320 $\Omega$ , 3.2k $\Omega$ , 32k $\Omega$ , 320k $\Omega$ , 3.2M $\Omega$ , 32M $\Omega$	200 $\Omega$ , 2k $\Omega$ , 20k $\Omega$ , 200k $\Omega$ , 2M $\Omega$ , 20M $\Omega$
Resolution	0.1 $\Omega$ , 1 $\Omega$ , 10 $\Omega$ , 100 $\Omega$ , 1k $\Omega$ , 10k $\Omega$	0.1 $\Omega$ , 1 $\Omega$ , 10 $\Omega$ , 100 $\Omega$ , 1k $\Omega$ , 10k $\Omega$
Accuracy	$\pm(0.5\% \text{ rdg} + 2 \text{ dgt})$	$\pm(0.75\% \text{ rdg} + 1 \text{ dgt})$
	$\pm(2.0\% \text{ rdg} + 5 \text{ dgt})$ for 32M $\Omega$	$\pm(1.5\% \text{ rdg} + 5 \text{ dgt})$ for 20M $\Omega$
Overload Protection	600V peak	600V peak
Diode Check	Tested at 1.5mA, 3.3V max typical tested at 1mA 3.2V max typical	
Continuity	Beeper sounds below 200 $\Omega$ approx.	Beeper sounds below 100 $\Omega$ approx.
Display	0.53" LCD, 3200 count with 65-segment analog bargraph	0.8" LCD, 1999 count
Sampling rate	2/sec., 12/sec. for bargraph	2.5 /sec.
Operating Temperature	32° to 122°F (0°C to 50°C), <80% RH	
Power	Single 9V battery	
Battery life	200 hrs typ (alkaline)	250 hrs typ (alkaline)
Auto power off	Approx. 10 min.	Approx. 30 min.
Dimensions (H x W x D)	6.88 x 3.19 x 1.25" (175 x 81 x 32mm)	6.88 x 3.5 x 1.5" (175 x 89 x 38mm)
Weight	18.3 oz. (519g)	12 oz. (353g)

## Accessories

**Five Year Warranty**

SUPPLIED: Battery, test leads, rubber holster, manual  
 OPTIONAL: TL-1 Replacement Test Leads, TL-2A Deluxe Test Leads, TL-3 Accessory Tip Kit (for TL-2A), TL-130A General Purpose DMM Kit, PR-28A High Voltage Probe, CP-3 AC/DC Current Clamp Adapter  
 Carrying Case (not included): LC-29B

\*10 A continuous, 20A for 30 seconds max.