

# Dual Display RS-232 Interface Multimeter



2880A



2890

These 4000 / 40,000 count True RMS multimeters make an excellent “first line” DMM for troubleshooting complex electrical and electronic circuits. Both DMMs have two read-outs in the large display to present both ACV and frequency simultaneously.

## Common Features of Models 2880A and 2890

- Selectable 4000 or 40000 count resolution with 0.06% accuracy
- Capacitance to 10mF
- Data Hold
- Maximum/Minimum and Average values (with elapsed time)
- Peak Hold
- Optional RS-232 interface (Model AK-2880A RS-232 cable and software sold separately)

### Model 2880A

- True RMS AC

### Model 2890

- True RMS AC, AC+DC, dBm
- dB measurement
- Selectable Impedance
- Temperature to 2502°F (1372°C) with optional TP-A
- Conductance
- Duty Cycle
- Square Wave Output: 16.4/4.8kHz @0 to 3V
- Timer and Signal Output: Max. timer 99ksec. @ 0 to 3V
- Backlight

## Specifications

	2880A	models 2890
DC Volts		
Ranges	40mV, 400mV, 4V, 40V, 400V, 1000V	
Resolution	10 $\mu$ V/1 $\mu$ V, 0.1mV/10 $\mu$ V, 1mV/0.1mV, 10mV/1mV, 0.1V/10mV, 1V/0.1V	
Accuracy	$\pm$ (0.08% rdg + 5 dgt), $\pm$ (0.06% rdg + 3dgt)	
Overload protection	600VDC/1200V peak	
Input Impedance	10M $\Omega$ (1000M $\Omega$ for 40mV and 400mV ranges)	
AC Volts		
Ranges	40mV, 400mV, 4V, 40V, 400V, 750V	
Resolution	10 $\mu$ V/1 $\mu$ V, 0.1mV/10 $\mu$ V, 1mV/0.1mV, 10mV/1mV, 0.1V/10mV, 1V/0.1V	
Accuracy	$\pm$ (0.7% rdg + 5 dgt)	
Frequency Response	50 Hz to 20kHz	
Overload Protection	1200 VDC or 850 VAC rms (600VDC or AC to 400 mV range)	
Input Impedance	10M $\Omega$	
Current		
Ranges	400 $\mu$ A, 4mA, 40mA, 400mA, 4A, 10A	
Resolution	0.1 $\mu$ A/10nA, 1 $\mu$ A/0.1 $\mu$ A, 10 $\mu$ A/1 $\mu$ A, 0.1mA/10 $\mu$ A, 1mA/0.1mA, 10mA/1mA	
Accuracy (DC)	$\pm$ (0.2% rdg + 3 dgt),	
Accuracy (AC)	$\pm$ (1.0% rdg + 5 dgt)	
Frequency Response	45 Hz to 2kHz	
Overload Protection	10A continuous	
Resistance/Conductance (2890)		
Ranges	400 $\Omega$ , 4k $\Omega$ , 40k $\Omega$ , 400k $\Omega$ , 4M $\Omega$ , 40M $\Omega$ , (2890 only: 40n5)	
Resolution	0.1 $\Omega$ /0.01 $\Omega$ , 1 $\Omega$ /0.1 $\Omega$ , 10 $\Omega$ /1 $\Omega$ , 100 $\Omega$ /10 $\Omega$ , 1 $\Omega$ /1k $\Omega$ , 10 $\Omega$ /1k $\Omega$ , (2890 only: 0.01/0.001 nS)	
Accuracy	$\pm$ (0.2% rdg + 3 dgt)	
Open Current Voltage	1.28V, 3.3V	
Overload Protection	600VDC, AC rms	
Diode Check	Tested at 1.5mA, 3.3V max typical tested at 1mA 3.2V max typical	
Resolution	1/0.1mV	
Accuracy	$\pm$ (1% rdg + 2 dgt)	
Test Voltage	<3.3V	
Test Current	1.65mA	
Overload Protection	600VDC, AC rms	
Continuity	Buzzer threshold: sounds below 100mV	
Display	4 3/4 digit LCD with 21 segment analog bargraph and automatic polarity indication	
Sampling rate	2/sec., 12/sec. for bargraph	2.5 /sec.
Operating Temperature	32° to 122°F (0°C to +50°C), $\leq$ 80% RH	
Power	Single 9V battery	
Battery life	200 hrs typ (alkaline)	200 hrs typ (alkaline)
Auto power off	Approx. 10 min.	Approx. 30 min.
Dimensions (H x W x D)	7.56 x 3.55 x 1.46 (192 x 90 x 37mm)	
Weight	2lbs. (940g)	2lbs. (940g)

## Accessories

Three Year Warranty

SUPPLIED: Battery, test leads, holster, manual  
 OPTIONAL: AK-2880A Communication Package, TL-50 Maxi-Pro DMM Kit, TL-130A General Purpose DMM Kit, TP-A Temperature Adapter (2890 only), Temperature Probes (see page 87 for detail)  
 Carrying Case (not included): LC-29B