

## Automotive Diagnostic Equipment

### EDA-230/210B

5,000 Counts Automotive MultiMeter

#### Features

##### EDA-230

- 5000 Count
- 53 Segments Analog Bargraph
- 3.3 time/sec Measuring Rate
- Auto/Manual Ranging
- DCV, ACV, DCA, ACA, Frequency, RPM, Dwell,
- Duty, Pulse Width, Temperature, Diode Continuity
- ACV Bandwidth 50Hz-5kHz
- Dynamic Recording (Max/Min/Avg) with Time Stamp
- PFI/TBI Fuel Injection (ms,%)
- DIS/CONV Selectable
- Relative Mode
- Tolerance Mode
- Zoom Mode
- Data Hold
- Input Warning
- 600V High Energy Fuse Protected
- Backlit Display
- Pulse Width and Duty Cycle
- Fuse Detect
- Auto Power Off

##### EDA-210B

- 5000 Count with 53 Segment Analog Bargraph
- 0.5% Basic Accuracy
- Auto/Manual Ranging
- DCV, ACV, DCA, ACA, OHM, Hz, Temperature, RPM, Dwell, Pulse Width, Duty, Diode and Audible
- Dynamic Recording (MAX/MIN/AVG) with Time Stamp
- Continuity Relative Mode
- Inductive RPM Pick Up for Conventional and DIS Ignitions
- Data Hold
- Auto Power Off with Sleep Mode
- Trigger Level Adjustable
- PFI/TBI Fuel Injection (ms,%)



CE EDA-230



CE EDA-210B

### Ordering Information

#### EDA-230/210B

##### Standard Accessories:

Manual, 9V Battery, Test Leads, Protective Holster  
Alligator Clip of Battery (EDA-230), Inductive Pick-Up,  
Thermocouple Adaptor (EDA-230)  
Thermocouple Probe (EDA-230)

##### Optional Accessories:

DP-26 K Type Thermo-Couple Adaptor  
DP-27 K Type Thermo-Couple Probe  
EC-230 Square Soft Carrying Case

Specifications	EDA-230	EDA-210B
<b>Display</b> Range	5000 Counts 53 Segment Auto/Manual	5000 Counts 53 Segment Auto/Manual
<b>DCV</b> Range Accuracy	50mV/500mV/1000mV/5V/50V/500V/1000V 50mV $\pm(0.2\%rdg+4dgt)$ 500mV-1000V $\pm(0.1\%rdg+2dgt)$	50mV/500mV/5V/50V/500V/1000V $\pm(0.5\%rdg+2dgt)$
<b>ACV</b> Range Accuracy	50mV/500mV/1000mV/5V/50V/500V/750V 50Hz-500Hz 50mV $\pm(1.0\%rdg+6dgt)$ 500mV-750V $\pm(1.0\%rdg+4dgt)$ 500Hz-1kHz 50mV $\pm(1.5\%rdg+6dgt)$ 500mV-750V $\pm(1.5\%rdg+4dgt)$ 500mV-50V $\pm(3.0\%rdg+4dgt)$ 1k-5kHz	50mV/500mV/5V/50V/500V/750V $\pm(1.0\%rdg+6dgt)$ 50-600Hz for 50mV-500mV $\pm(1\%rdg+4dgt)$ for 5V-750V
<b>DCA</b> Range Accuracy	5000mA, 20A 5000mA $\pm(1.5\%rdg+5dgt)$ 20A $\pm(1.5\%rdg+3dgt)$ , 10A Continuous, 20A for 3 sec max	500 $\mu$ A/5mA/50mA/500mA/5A/10A $\pm(1.5\%rdg+3dgt)$
<b>ACA</b> Range Accuracy	5000mA, 20A 5000mA $\pm(1.5\%rdg+6dgt)$ 20A $\pm(1.5\%rdg+4dgt)$ , 10A continuous, 20A for 30sec max	500 $\mu$ A/5mA/50mA/500mA/5A/10A $\pm(2\%rdg+4dgt)$ @50-600Hz
<b>Resistance</b> Range Accuracy	50 $\Omega$ /500 $\Omega$ /5k $\Omega$ /50k $\Omega$ /500k $\Omega$ /5M $\Omega$ /50M $\Omega$ 50 $\Omega$ -500k $\Omega$ $\pm(0.6\%rdg+3dgt)$ 5M $\Omega$ $\pm(0.8\%rdg+3dgt)$ 50M $\Omega$ $\pm(3.0\%rdg+5dgt)$	50 $\Omega$ /500 $\Omega$ /5k $\Omega$ /50k $\Omega$ /500k $\Omega$ /5M $\Omega$ /50M $\Omega$ 50 $\Omega$ $\pm(2\%rdg+20dgt)$ 500 $\Omega$ -5M $\Omega$ $\pm(1\%rdg+3dgt)$ 50M $\Omega$ $\pm(3\%rdg+5dgt)$
<b>RPM</b> Range Accuracy	60-12000rpm/30-12000rpm(DIS) $\pm(0.2\%rdg+2dgt)$	60-12000 rpm, 30-12000 rpm $\pm(0.2\%rdg+3dgt)$
<b>Temperature(K-type)</b> Range Accuracy	-40°C-1372°C/-40°F-2502°F $\pm(0.3\%rdg+3°C)$ $\pm(0.3\%rdg+6°F)$	-40°C-1372°C/(-40°F-2502°F) $\pm(0.3\%rdg+3°C)$ $\pm(0.3\%rdg+6°F)$
<b>Dwell Angle</b> Range Accuracy	1/2/3/4/5/6/8/10/12 Cylinder $\pm(0.2\%rdg+2dgt)$	3/4/5/6/8/10/12 Cylinder $\pm(0.2\%rdg+3dgt)$ at 60-12000RPM
<b>Pulse Width</b> Range Accuracy	0.02ms-999 ms $\pm(0.2\%rdg+3dgt)$	0.02ms-999.9ms $\pm(0.2\%rdg+3dgt)$ at 60-12000RPM
<b>Frequency</b> Range Accuracy	100Hz/1kHz/10kHz/100kHz/1MHz/10MHz (0.01%rdg+2dgt)	100Hz/1kHz/10kHz/100kHz/200kHz $\pm(0.01\%rdg+3dgt)$
<b>Capacitor</b> Range Accuracy	5nF/50nF/500nF/5 $\mu$ F/50 $\mu$ F/500 $\mu$ F/5mF 5nF-500 $\mu$ F $\pm(2.0\%rdg+4dgt)$ 500 $\mu$ F-2mF $\pm(3\%rdg+5dgt)$ 2mF-5mF No.SPEC	50nF/500nF/5 $\mu$ F/50 $\mu$ F/500 $\mu$ F/5mF 50nF-500 $\mu$ F $\pm(2.0\%rdg+4dgt)$ 500 $\mu$ F-2mF $\pm(3\%rdg+5dgt)$ 2mF-5mF No. SPEC.
<b>Duty Cycle</b> Range Accuracy	0.1%-99.9% $\pm(0.2\%rdg+2dgt)$	0.1%-99.9% $\pm(0.2\%rdg+3dgt)$ at 60-12000RPM
<b>Diode</b>	•	•
<b>Continuity</b>	•	•
<b>Dimensions (L x W x H)</b>	192 x 90 x 37mm	192 x 90 x 37mm
<b>Weight</b>	0.76kgs	0.76kgs