

# Bench Multimeters



2835



2831C

B+K Precision offers 2 models that are great for use by any technician or students in a laboratory or field environment. Model 2835 has a compartment to carry test leads and other accessories with convenient strap for easy transportation. The large LCD provides a good reading. Model 2831C has accurate True RMS for interpretation of any waveform signal. The LED display provides clear reading in darker environments. It is a great tool for any bench, next to a power supply and oscilloscope.

## Model 2835

- Large LCD provides a good reading
- Compartment to carry test leads and other accessories
- Convenient strap for easy transportation
- Portable
- Battery operated

## Model 2831C

- True RMS for accurate interpretation of any waveform signal
- LED display for clear reading in darkest environment
- Great overload protection
- Tests 1200VDC and 1000VAC

## Specifications

|                       | 2835  | 2831C                                     |
|-----------------------|---|---|
| <b>models</b>         |   |   |
| DC Volts              |   |   |
| Ranges                | 400mV, 4V, 40V, 400V, 1000V                                   | 200mV, 2V, 20V, 200V, 1200V               |
| Resolution            | 0.1mV, 1mV, 10mV, 100mV, 1V                                   | 0.1mV, 1mV, 10mV, 100mV, 1V               |
| Basic Accuracy        | 0.5% + 2 digits   | 0.1% + 1 digit                            |
| Input Impedance       | 10MΩ  | 10MΩ                                      |
| AC Volts              |   |   |
| Ranges                | 400mV, 4V, 40V, 400V, 750V                                    | 200mV, 2V, 20V, 200V, 1000V               |
| Resolution            | same as DCV   | same as DCV                               |
| Basic Accuracy        | 1.0% + 5 digits   | 0.5% + 4 digits                           |
| Input Impedance       | 10 MΩ < 100pF   | 10 MΩ < 100pF                             |
| True RMS              | No  | Yes                                       |
| DC Current            |   |   |
| Ranges                | 4mA, 40mA, 400mA, 10A   | 200μA, 2mA, 20mA, 200mA, 2000mA, 20A      |
| Resolution            | 1μA, 10μA, 100μA, 10mA  | 100nA, 1μA, 10μA, 100μA, 1mA, 10mA        |
| Basic Accuracy        | 0.75% + 2 digits  | 0.2% + 1 digit                            |
| Overload Protection   | 1A, 600V & 15A, 600V fuse 10A unfused                         | 2A/250V fuse & 4A/500V fuse, 20A unfused  |
| AC Current            |   |   |
| Ranges                | 4mA, 40mA, 400mA, 10A   | 200μA, 2mA, 20mA, 200mA, 2000mA, 20A      |
| Resolution            | 1μA, 10μA, 100μA, 10mA  | 100nA, 1μA, 10μA, 100μA, 1mA, 10mA        |
| Basic Accuracy        | 1.5% + 5 digits   | 1.0% rdg + 4 digits                       |
| Overload Protection   | 600V DC or AC peak  | Same as DC                                |
| Resistance            |   |   |
| Ranges                | 400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ                             | 200Ω, 2kΩ, 20kΩ, 200kΩ, 2000kΩ, 20MΩ      |
| Resolution            | 0.1Ω, 1Ω, 10Ω, 100Ω, 1kΩ, 1kΩ                                 | 0.1Ω, 1Ω, 10Ω, 100Ω, 1kΩ, 10kΩ            |
| Basic accuracy        | 0.75% rdg + 4 digits  | 0.2% rdg + 1 digit                        |
| Capacitance           |   |   |
| Ranges                | 4nF, 40nF, 400nF, 4μF, 40μF                                   | Does not apply                            |
| Resolution            | 0.001nF, 0.01nF, 0.1nF, 0.001μF, 0.01μF                       |   |
| Basic Accuracy        | 1.0% + 4 digits   |   |
| Frequency             |   |   |
| Range                 | 100Hz, 1kz, 10kHz, 100kHz, 1MHz                               | Does not apply                            |
| Accuracy              | 0.1% rdg + 4 digits   |   |
| Sensitivity           | 40μV rms on 100 Hz to 10kHz ranges, 400μV on all other ranges |   |
| Diode Test            | 4V range, 0.6mA test current,                                 | Tested on 2kΩ range, 1mA test current     |
| Continuity Check      | Audio tone for resistance under 50Ω                           | Audio tone for resistance under 10Ω       |
| General               |   |   |
| Display               | 3-3/4 digit 4000 count backlit LCD                            | 3-1/2 digit LCD, 0.5 inch LED             |
| Power                 | 6 "AA" batteries (not supplied)                               | 120/240 VAC, 50/60 Hz (SW)                |
| Operating Temperature | 32° to 122°F (0° to 50°C), 70% RH                             | 32° to 104°F (0° to 40°C), 70% RH         |
| Size                  | 2.87 x 8.58 x 7.68" (73 x 218 x 195mm)                        | 4.5 x 11.75 x 10.375" (114 x 298 x 264mm) |
| Weight                | 3 lbs (1.3 kg)  | 5.5 lbs (2.5 kg)                          |

## Accessories

**One Year Warranty**

SLIPPED: Instruction Manual, Test Leads, AC Power Cord, Carrying Strap(Model 2835)  
 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-28 High Voltage Probe, CP-3 AC/DC Current Clamp Adapter