

Data Sheet

Dual Display 51,000 Count DMMs Models 2880B & 2890A

Model 2890A is a Dual Display 51,000 Count DMMs with exceptional accuracy and functionality. It offers superb performance with many features that are useful for trouble shooting electronic and electrical circuits or to test and evaluate circuits in a field service application.

Common Features:

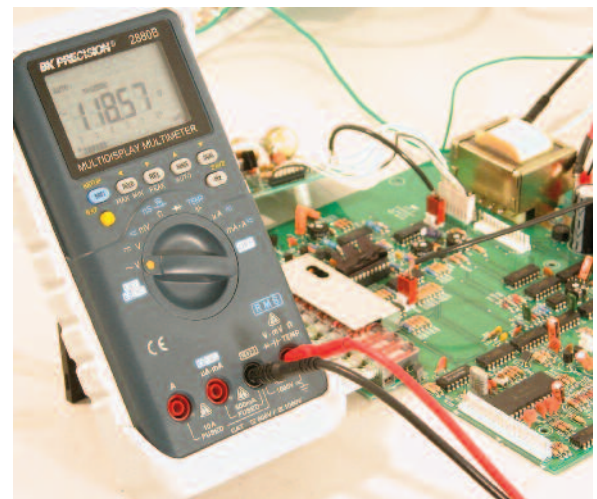
- True RMS ACV and ACA
- AC+DC True RMS (2890A only)
- 5 Digit LCD for both the primary and secondary displays
- 21 Segment analog bar graph
- Automatic polarity indicator
- 0.025% Basic DCV accuracy (0.03% for 2880B)
- Resistance measurements
- Conductance measurements up to 50nS with 0.01nS resolution
- Capacitance measurement
- Frequency with ACV measurement
- Data Hold
- dBm Measurement
- REL Mode
- 1ms Peak Hold for glitch capture
- Back lit LCD (2890A only)
- Frequency counter up to 20MHz (2890A only)
- Square Wave output with 28 frequency ranges and adjustable duty cycle (2890A only)
- Conforms to IEC-1010-1 600V CAT III and 1000V CAT II
- CE Approved



2880B



2890A



Electronic Circuit Trouble Shooting



Easy to Understand Interface



IEC Rated Inputs



Back Lit LCD (2890A only)



Square Wave Output (2890A only)

New DMM Test kits Contains Most Commonly Requested Accessories

B&K Precision Corporation's new Model 2880BKIT and 2890AKIT DMM Test Kits are the latest additions to its growing line of test and measurement instruments. The new kits combine B+K's most popular DMM's with the most commonly requested accessories for each model. B+K has taken the guesswork out of ordering these meters and accessories.

Now, the user can have all of the tools ready upon receipt to take full advantage of either meters capability. The new DMM kits offer versatility and reliability for a broad spectrum of applications, while providing a significant cost savings over individual component pricing. B+K Precision's new DMM kits are the ideal tools to get the job done quickly and economically. These value-packed meter kits are a must for every electronic professional. For more information on these kits see page 72 or go to www.bkprecision.com

2880BKIT



2890AKIT



Specifications

models

| | 2880B | 2890A |
|-------------------------------|---|----------------|
| DC Volts | | |
| Ranges | 50 mV, 500 mV, 1000mV, 5V, 50V, 500V, 1000V | |
| Resolution | 1 uV, 10 uV, 0.1 mV, 0.1 mV, 1 mV, 10 mV, 0.1V | |
| Accuracy | ±(0.05% rdg + 50 dgt), ±(0.03% rdg + 5 dgt) | |
| Overload protection | 600VDC/1200V peak | |
| Input Impedance | 10 MΩ (1000 MΩ for 50 mV and 500 mV ranges) | |
| AC Volts | | |
| Ranges | 50 mV, 500 mV, 1000mV, 5V, 50V, 500V, 1000V | |
| Resolution | 1 uV, 10 uV, 0.1 mV, 0.1 mV, 1 mV, 10 mV, 0.1V | |
| Accuracy (Basic AC) | ±(0.6% rdg + 25 dgt) | |
| Frequency Response | 30 Hz to 30 kHz | |
| Overload Protection | 1200 VDC or 850 VAC rms (600 VDC or AC to 500 mV range) | |
| Input Impedance | 10 MΩ | |
| Current | | |
| Ranges | 500uA, 5 mA, 50 mA, 500 mA, 5A, 10A | |
| Resolution | 10 nA, 0.1 uA, 1 uA, 10 uA, 0.1 mA, 1 mA | |
| Accuracy (Basic DC) | ±(0.1% rdg + 5 dgt) | |
| Accuracy (Basic AC) | ±(0.8% rdg + 20 dgt) | |
| Frequency Response | 30 Hz to 30 kHz | |
| Overload Protection | 10A continuous | |
| Resistance/Conductance | | |
| Ranges | 500Ω , 5 kΩ, 50 kΩ, 500 kΩ, 5 MΩ, 50 MΩ, 500MΩ(model 2890A), 500nS | |
| Resolution | 0.01Ω , 0.1 Ω, 1 Ω, 10 Ω, 1 kΩ, 1 kΩ, 0.01nS | |
| Accuracy (Basic) | ±(0.8% rdg + 5 dgt) | |
| Overload Protection | 600VDC, AC rms | |
| Frequency | Does not apply | ±0.02% + 3dgt |
| Frequency Counter | Does not apply | ±0.002% + 5dgt |
| Square Wave Output | Does not apply | ±0.005% + 2dgt |
| Diode Check | | |
| Range | Diode | |
| Resolution | 0.1mV | |
| Accuracy | ±(0.05% rdg + 5 dgt) | |
| Test Current | Approx. 1.0mA | |
| Open Voltage | < +4.8V DC | |
| Overload Protection | 1000V RMS for the circuits<0.3A short circuit | |
| Continuity | Buzzer threshold: sounds below 100 mΩ | |
| Display | 5 digit LCD with 21 segment analog bargraph and automatic polarity indication | |
| Operating Temperature | 32° F to 122° F (0° C to + 50° C), <= 80% RH | |
| Power | Single 9V battery | |
| Battery life | 80 hrs typ (alkaline) | |
| Auto power off | Approx. 10 min. | |
| Dimensions (HxWxD) | 7.56x3.55x1.46 (192x90x37 mm) | |
| Weight (approx) | 2 lbs. (936g) | |

Accessories

Three Year Warranty

SUPPLIED: Battery, test leads, holster, manual

OPTIONAL: AK 2880B Communication Package, TL-50 Maxi-Pro DMM Kit, TL 130A General Purpose DMM Kit, TP-A Temperature Adapter, Temperature Probes, Carrying Case (not included): LC 29B

NOTE: For more detailed specifications, please use specifications in the downloadable instruction manual.

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