

## Models AX502 & AX503



Optional lead set includes two color-coded leads, one ground lead (stripped), two alligator clips and two grip probes. **Catalog #2117.78**

### ► FEATURES

- Dual 0 to 30Vdc/0 to 2.5A outputs
- 5.5V/5A output (Model AX503)
- Series and parallel operation permit 0 to 60V or 0 to 5A output
- Low noise (<1mV ripple) and stable linear technology for clean output
- High efficiency toroidal transformers: no fan and low electromagnetic emissions
- Active protection against overloads, short circuits and overheating
- Unique variable tracking mode for master/slave operation: slave or master track proportionally to the original setting
- Simultaneous display of voltage and current
- Highly visible green (V) and red (A) LED displays
- Compact design for bench tops
- Designed to EN 61010-1 safety standards

### ► SPECIFICATIONS

| MODELS                          | AX502  | AX503                   |
|---------------------------------|--|-------------------------|
| <b>Number of Outputs</b>        | 2  | 3                       |
| <b>VOLTAGE</b>                  |  |                         |
| <b>Output 1 &amp; 2</b>         | 0 to 30Vdc   | 0 to 30Vdc              |
| <b>Output 3 (No display)</b>    | –  | 2.7 to 5.5Vdc           |
| <b>Display Resolution</b>       | 100mV  | 100mV                   |
| <b>Basic Accuracy</b>           | ±0.5% of Reading ±1ct  | ±0.5% of Reading ±1ct   |
| <b>Residual Ripple</b>          | ±1mVrms  | ±1mVrms                 |
| <b>LINE REGULATION</b>          |  |                         |
| ±10% Line Voltage               | ±0.03% of Reading ±2mV   |                         |
| <b>LOAD REGULATION</b>          |  |                         |
| <b>0 to 2.5A</b>                | ±0.02% of Reading ±5mV   |                         |
| <b>0 to 5A</b>                  | –  | ±0.2% Reading ±10mV     |
| <b>CURRENT</b>                  |  |                         |
| <b>Output 1 &amp; 2</b>         | 0 to 2.5A  | 0 to 2.5A               |
| <b>Output 3</b>                 | –  | 5A max (no adjustment)  |
| <b>Resolution</b>               | 10mA   | 10mA                    |
| <b>Basic Accuracy</b>           | ±0.5% of Reading ±1ct  | ±0.5% of Reading ±1ct   |
| <b>Limit Indicator</b>          | LED, Outputs 1 and 2   | LED, Outputs 1, 2 and 3 |
| <b>Short-circuit Protection</b> | Electronic current limitation with voltage shutdown                                |                         |
| <b>Overheating Protection</b>   | Thermal protection   |                         |
| <b>OUTPUT COUPLING</b>          |  |                         |
| <b>Tracking</b>                 | Output 1: Master/Output 2: Slave Proportional Slave Tracking (0 to 100% of Master) |                         |
| <b>Series Mode</b>              | 0 to 60Vdc/0 to 2.5A   |                         |
| <b>Parallel Mode</b>            | 0 to 30Vdc/0 to 5A   |                         |
| <b>Power Source</b>             | 110V, 50/60Hz (220V optional)  |                         |

## Models BR07 & BC05



### ► FEATURES

- Capacitance and resistance decade boxes
- Rotary switch selector
- Stop position to prevent accidental switching from 10 to 0
- Male ground (earth) terminal with safety jack
- Outputs on Ø 4mm safety terminals
- Ground jumper lead EN 61010-2-03, 150V CAT II, 50V CAT III, Pollution Degree 2
- Resistance ranges are 1Ω to 11.1111MΩ for BR07 and 0.1nF to 11.111μF for BC05

### ► SPECIFICATIONS

| DECADE                       | 1                                  | 2                                    | 3                                    | 4                                  | 5                                   | 6                                       | 7                                   |
|------------------------------|------------------------------------|--------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|---|-------------------------------------|
| <b>BR07</b>                  | 1 to 10Ω;<br>Max current:<br>700mA | 10 to 100Ω;<br>Max current:<br>200mA | 100Ω to 1kΩ;<br>Max current:<br>70mA | 1 to 10kΩ;<br>Max current:<br>20mA | 10 to 100kΩ;<br>Max current:<br>7mA | 100kΩ to<br>1MΩ;<br>Max current:<br>1mA | 1 to 10MΩ;<br>Max current:<br>0.1mA |
| <b>BC05</b>                  | 0.1 to 1nF                         | 1 to 10nF                            | 10 to 100nF                          | 100nF to 1μF                       | 1 to 10μF                           | –                                       | –                                   |
| <b>MODELS</b>                |                                    |                                      | <b>BR07</b>                          |                                    | <b>BC05</b>                         |   |                                     |
| <b>Accuracy</b>              | ±1%                                |                                      | ±3% (low residual capacitance)       |                                    |                                     |   |                                     |
| <b>Residual Capacitance</b>  | –                                  |                                      | 25pF (approx.)                       |                                    |                                     |   |                                     |
| <b>Max Operating Voltage</b> | –                                  |                                      | 300Vdc, 230Vac (50Hz)                |                                    |                                     |   |                                     |

| CATALOG NO. | DESCRIPTION |
|-------------|-------------|
|-------------|-------------|

|         |   |
|---------|---|
| 2130.06 | DC Power Supply Model AX502 (Dual outputs, 0 to 2.5A; 0 to 30Vdc; 110V, 50/60Hz)                          |
| 2130.07 | DC Power Supply Model AX503 (Triple outputs, two 0 to 2.5A; 0 to 30Vdc; 5A; 2.7 to 5.5Vdc; 110V, 50/60Hz) |
| 2131.25 | Resistance Decade Box Model BR07 (x1Ω, x10Ω, x100Ω, x1kΩ, x10kΩ, x100kΩ, x1MΩ, 1%)                        |
| 2131.26 | Capacitance Decade Box Model BC05 (x0, 1nF, x1nF, x10nF, x100nF, x1knF, 3%)                               |

#### Accessories (Optional)

|         |   |
|---------|---|
| 2117.78 | Lead – Set of 3, (2 Color-coded Safety Leads, 1 Ground Lead, 2 Color-coded Alligator Clips and 2 Color-coded Grip Probes) for Power Supply Models AX501-AX503 |
| 2131.35 | Lead – Replacement, 6ft Safety Lead, 4mm Female to Female for use with Decade Boxes   |