

# 6-Dial Decade Resistance Box

**RTD Simulator** 

### **FEATURES**

- Accuracy ≤0.005% +2 mΩ
- Temperature coefficient of resistance ≤ 5 ppm/°C
- Long-term stability in resistance ≤50 ppm/year (storage life)
- Low contact resistance switch and three clip-typed contacts in parallel
- Low thermal EMF terminal
- Double electrical shielding protective against noise
- Utilizing Bulk Metal® Foil ultra precision resistance inside

#### **MASS**

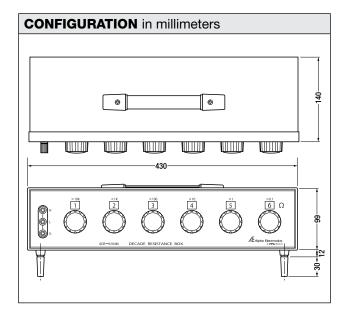
Approx. 4.5 kg (10 lbs)

## **DESCRIPTION**

The ultra precision resistors, the rotary switches, the output terminals and the double shielded construction are all features of the 6-Dial Decade Resistance Box with 6½ digit readings.

Resistors used in the 6-Dial Decade Resistance Box are ultra precision Bulk Metal® Foil resistors manufactured by Alpha Electronics Corp., assuring high stability over time and environment change. Rotary switches have very low contact resistance as three clip-typed contacts are connected in parallel. The three contacts assure higher mechanical reliability mechanically. Output terminals have very low thermal EMF, using rectangular wires of low thermal resistance material in a well-designed circuit configuration. Double shielded construction inhibits interference of environmental noise.





| SPECIFICATIONS |                             |                             |                 |                                |        |        |        |        |        |   |         |
|----------------|-----------------------------|-----------------------------|-----------------|--------------------------------|--------|--------|--------|--------|--------|---|---------|
| Series         | Min.<br>Resistance<br>Value | Max.<br>Resistance<br>Value | Resolu-<br>tion | Dial Resistance Value/Step (Ω) |        |        |        |        |        | Accuracy                                | Max.    |
|                |                             |                             |                 | Dial 1                         | Dial 2 | Dial 3 | Dial 4 | Dial 5 | Dial 6 | Accuracy                                | Wattage |
| ADR-6102M      | 0.100Ω                      | 1.111210 kΩ                 | 0.001           | 100                            | 10     | 1      | 0.1    | 0.01   | 0.001  | ±(0.005%<br>±2 mΩ)                      | 0.5W    |
| ADR-6103M      | 0.10Ω                       | 11.11110 kΩ                 | 0.01            | 1k                             | 100    | 10     | 1      | 0.1    | 0.01   |   |         |
| ADR-6104M      | 0.1Ω                        | 111.1110 kΩ                 | 0.1             | 10k                            | 1k     | 100    | 10     | 1      | 0.1    |   |         |
| ADR-6105M      | 1Ω                          | 1.111110 ΜΩ                 | 1               | 100k                           | 10k    | 1k     | 100    | 10     | 1      |   |         |
| ADR-6106M      | 10Ω                         | 11.11110 ΜΩ                 | 10              | 1M                             | 100k   | 10k    | 1k     | 100    | 10     | <1 MΩ<br>±(0.01% +50 mΩ)<br>≥1 MΩ ±0.1% | 0.5W    |



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