

## ohm Source Series

### Electronically Controlled Resistance Box Your SOURCE of Resistance!

The ohmSOURCE Resistance Box product line is like nothing you have ever seen before! Microprocessor-controlled and loaded with innovative features, the ohmSOURCE Resistance Box succeeds in providing highly accurate and precise resistance values in an intuitive and user-friendly fashion. With a resistance value range of up to 24 MΩ and a power rating of up to 1 Watt, the handheld ohmSOURCE is practical for all industries including automotive, medical, test & measurement, telecommunications, and HVAC.

#### Automatic RTD simulation

The Translation Table Add-on enables the user to download and store data tables in the ohmSOURCE Resistance Decade Box for translating a known, user-definable physical characteristic into a resistance value. Use this option to simulate

any type of transducer that converts a physical phenomenon into a resistance value: thermistors, conductivity sensors, etc... Each table may contain up to 256 equivalences.

Using the RS-232 interface and the Software Development Kit, you can control the ohmSOURCE from a remote computer and design automated test equipment to fit your custom application.

**Uses real resistors.**



RTD values may be stored and recalled by temperature setting

### FEATURES AND BENEFITS

- **Keypad Interface**  
Enter resistance values using a calculator-style keypad.
- **Quick Value Keys**  
Recall up to four frequently used resistance values with one touch.
- **Memory Keys**  
Store resistance values in up to 10 additional memory locations (0-9).
- **Current Limiter (user-defined)**  
Limits the amount of current passing through the ohmSOURCE to prevent possible damage.
- **Increment Value Setting**  
Change resistance by user-defined increments or select standard resistance values (1%, 5%, 10%)
- **Open Key**  
Conveniently 100% mechanically isolate the ohmSOURCE from the application with the touch of a key.
- **Easy-to-Read Display**  
The output resistance value, in ohms, is easily read from the large, graphical LCD display.
- **Automatic Residual Resistance**  
The residual resistance of the ohmSOURCE is automatically included in the output resistance value.  
**No zero subtraction is required.**
- **Auto-Off Power**  
The ohmSOURCE automatically shuts off after 4 minutes of inactivity to conserve power.
- **Field Calibration**  
Easily calibrate the ohmSOURCE with a high precision ohmmeter. Annual factory calibration recommended.
- **FLASH Software Updates**  
The microprocessor has FLASH program memory to allow reprogramming of product firmware.
- **Accessories**
  - OS-91.001 Software Development Kit
    - Software & Hardware Tools for Advanced Customization
  - OS-91.002 Test Leads
    - Dual Banana Plug to Mini-Alligator Clips

### SPECIFICATIONS

	Model OS-250	Model OS-260	Model OS-270
Range	Rmin* to 24,000,000 Ω	Rmin* to 24,000,000.0 Ω	Rmin* to 1,500,000.00 Ω
Resolution	1 Ω	0.1 Ω	.01 Ω
Accuracy no zero subtraction	±1 Ω, for 1 kΩ and under ±0.1%, for over 1 kΩ	±0.5 Ω, for 1 kΩ and under ±0.1%, for over 1 kΩ	±0.1 Ω, for 5 kΩ and under ±0.01%, for over 5 kΩ
Power Rating	1.0 W	1.0 W	1.0 W
Power Supply	4 AA alkaline batteries	4 AA alkaline batteries	4 AA alkaline batteries

Rmin\*: Minimum settable resistance, determined at calibration, approximately 1 Ω.

