

This handheld ohmSOURCE is an effective option for field applications in all industries including automotive, medical, test and measurement, and telecommunications. This microprocessor-controlled, programmable resistance decade box provides highly accurate and stable resistance values. It features a user-friendly interface, resistances of up to 24 M Ω , power of up to 1 W, and two banana-to-alligator cables for convenient connection. While remaining cost-effective, the ohmSOURCE still offers many advanced features to ensure that it is practical for both laboratory and field applications.



OS-270 Resistance Box with Leads Attached

Keypad interface:

Enter resistance values using a calculator-style interface.

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 limit (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.

Open key:

Completely isolate the output terminals with the touch of a key.

Easy-to-read display:

Large LCD display makes it easy to read the output.

Automatic residual resistance compensation:

The residual resistance of the ohmSOURCE is automatically included in the output resistance value.
No zero-resistance subtraction required.

Auto-off power:

To conserve power, the ohmSOURCE automatically shuts off after 4 minutes of inactivity.

Field calibration:

Easily calibrate the ohmSOURCE with a high-precision ohmmeter. Annual factory calibration is recommended.

Specifications:

	Model OS-260	Model OS-270
Range	0* to 24,000,000.0 Ω	0* to 1,500,000.00 Ω
Resolution	0.1 Ω	0.01 Ω
Accuracy	$\leq 1,000.0 \Omega$: $\pm 0.5 \Omega$ $> 1,000.0 \Omega$: $\pm 0.1\%$	$\leq 1,000.0 \Omega$: $\pm 0.1 \Omega$ $> 1,000.0 \Omega$: $\pm 0.01\%$
Power Rating	1.0 W	1.0 W
Power Supply	4 AAA alkaline batteries	4 AAA alkaline batteries

*Minimum settable resistance, determined at calibration, is approximately 1 Ω



Model OS-260 Resistance Box

USB interface:

USB interface via USB mini connector for control of ohmsources and firmware updates.

Test leads:

Each ohmSOURCE includes two banana-plug-to-mini-alligator-clip leads.

Electrical isolation:

The ohmSOURCE circuit is completely isolated

Mechanical:

Dimensions:
8.4 cm W x 17.3 cm H x 3.17 cm D
(3.3" W x 6.6" H x 1.25" D)
Weight: 450 g (1 lb)

OPTIONAL ACCESSORIES

OS-91.001 Software Development Kit

For simulating RTD's, this software kit lets users download up to three different data tables into the ohmSOURCE. These data tables, containing up to 256 equivalences, also make it possible for the unit to simulate transducers such as thermistors and conductivity sensors. For convenient PC connection, the software kit includes a USB cable.

