

Resistance Decade Box

MODEL BR07

Bench Top Decade Box that Stands up to the Task!

- A versatile tool, essential for measuring resistance in electrical circuits and calibrating other devices
- Model BR07 Resistance Decade Box is designed for precision and reliability, with seven-decade rotary switches offering a resistance range from 1 Ω to over 10 M Ω
- Housed in a durable metal bench-top box, equipped with \varnothing 4 mm safety terminals, and meets EN 61010-1 safety standards
- It is highly effective for troubleshooting electrical issues, allowing engineers to diagnose problems and optimize circuit performance

Our products are backed by over 130 years of experience in test and measurement equipment, and encompass the latest international standards for quality and safety.

Technical Hotline: (800) 343-1391
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INSTRUMENTS
CHAUVIN ARNOUX GROUP

Resistance Decade Box

Model BR07

What is a Resistance Decade Box?

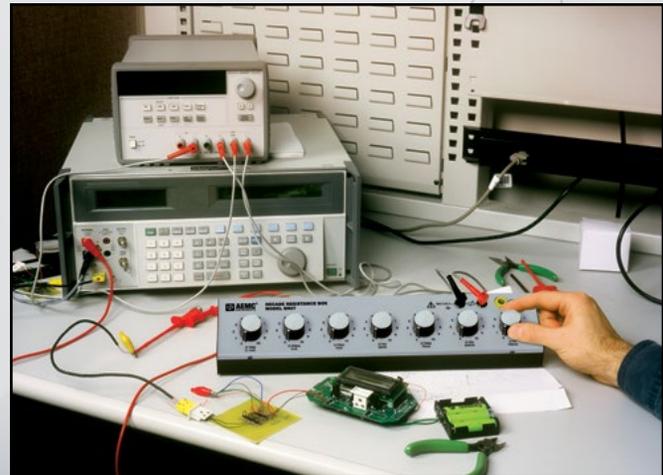
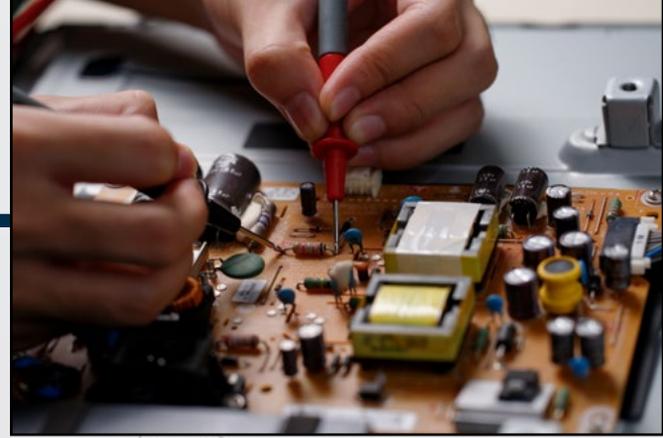
A resistance decade box, also known as a resistor substitution box, is a device that contains resistors with various values and mechanical switches that allow a user to dial in a specific resistance, making it a versatile tool for a range of applications. It is particularly useful for measuring the resistance of electrical circuits and calibrating other devices.

For electrical engineers, a resistance decade box is invaluable. It enables the measurement of resistance in various components and the creation of specific resistance values tailored to different needs. For instance, when measuring the resistance of a particular element, an engineer can set a known resistance using the decade box and then measure the voltage across the component.

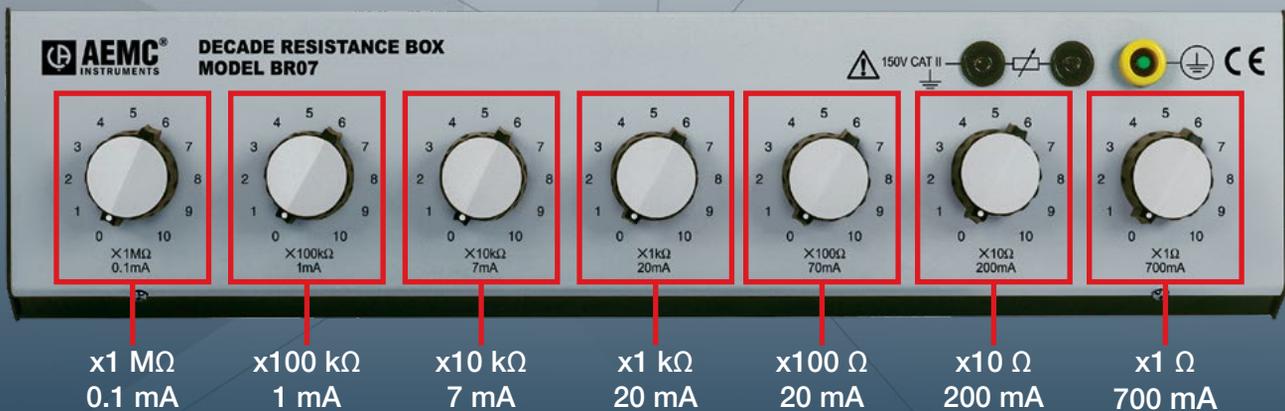
This tool is also highly effective for troubleshooting electrical issues. By adjusting the resistance, engineers can diagnose problems and optimize circuit performance. Additionally, the flexibility to create different resistance values, whether lower for efficient circuit design or higher for more resistant paths, enhances the utility of the decade resistance box.

The Model BR07 Resistance Decade Box is engineered for precision and reliability, housed in a durable metal bench-top box. Designed for both testing and calibration of test equipment, this versatile tool allows users to generate resistance values with exact precision, thanks to its seven-decade rotary switches offering a range from 1 Ω to over 10 M Ω .

Model BR07 is equipped with \emptyset 4 mm safety terminals and designed in accordance with EN 61010-1 safety standards. It also comes with a ground jumper lead for added convenience.



FRONT PANEL



Resistance Decade Box

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FEATURES

- Resistance box: 7 decades covering a range from 1 Ω to 11.11111 M Ω
- 11-position switches
- Output via 4 mm safety banana jacks
- Accuracy: 1 % \pm 10 m Ω on all ranges

APPLICATIONS

- Calibration of test equipment
- Circuit design and testing
- Sensor and transducer simulation
- Precision circuit adjustment
- Component testing
- Research and development

REPLACEMENTS

CAT. #2131.35

Replacement, 6 ft safety lead, 4 mm female to female for Decade Boxes



Model BR07

Decade	1	2	3	4	5	6	7
Resistance	(1 to 10) Ω	(10 to 100) Ω	100 Ω to 1 k Ω	(1 to 10) k Ω	(10 to 100) k Ω	100 k Ω to 1 M Ω	(1 to 10) M Ω
Max. Current	700 mA	200 mA	70 mA	20 mA	7 mA	1 mA	0.1 mA
Accuracy	1 % \pm 10 m Ω						
Dimensions	(16 x 3.4 x 3) in (410 x 86 x 76) mm						
Weight	3 lb (1.4 kg)						
Operation Temperature	(14 to 131) $^{\circ}$ F • (-10 to 55) $^{\circ}$ C						
Storage Temperature	(-40 to 158) $^{\circ}$ F • (-40 to 70) $^{\circ}$ C						
Pollution Degree	2						
Safety Compliance	EN 61010-2-03						

CAT. # DESCRIPTION

2131.25 Resistance Decade Box Model BR07 ((x1, x10, x100) Ω , (x1, x10, x100) k Ω , x1 M Ω , 1 %)



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950.BR-DECADBOX_20241009 • Printed in the USA

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