

# Decade Box Models BR04, BR05, BR06, BR07 & BC05



These decade boxes are built into a metal bench top box. They are used for testing and calibration.

The main function of these decade boxes is to create a resistance or capacitance with a specific value by using a combination of the rotary decade switches.

They are equipped with  $\varnothing$  4mm safety terminals for connection. Designed to international safety standard EN 61010-1.

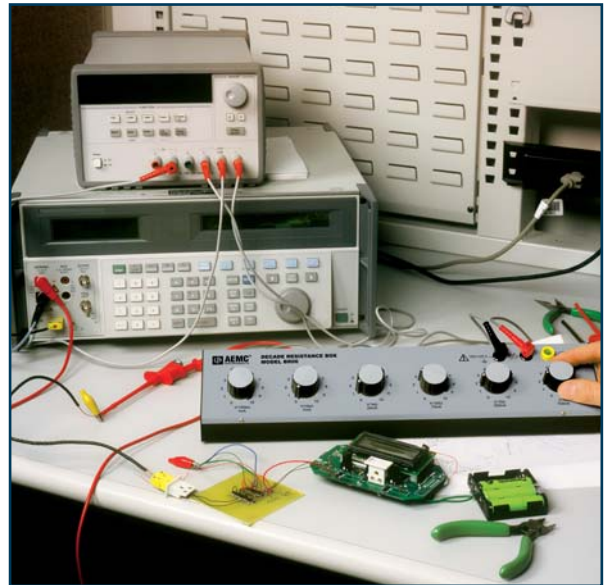
## Features

- 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  $\varnothing$  4mm safety terminals
- Ground jumper lead EN 61010-2-031, 150V Cat. II, 50V Cat. III – Pollution Degree 2
- Accuracy 1% (Resistance)
- Accuracy 3% (Capacitance)

# Specifications

Resistance Decade Boxes					
MODELS	BR04	BR05	BR06	BR07	
<b>RANGE</b>					
<b>Decade</b>	1	1 to 10Ω	1 to 10Ω	1 to 10Ω	1 to 10Ω
	2	10 to 100Ω	10 to 100Ω	10 to 100Ω	10 to 100Ω
	3	100Ω to 1kΩ	100Ω to 1kΩ	100Ω to 1kΩ	100Ω to 1kΩ
	4	1 to 10kΩ	1 to 10kΩ	1 to 10kΩ	1 to 10kΩ
	5	–	10 to 100kΩ	10 to 100kΩ	10 to 100kΩ
	6	–	–	100kΩ to 1MΩ	100kΩ to 1MΩ
	7	–	–	–	1 to 10MΩ
<b>MAX CURRENT (mA<sub>DC</sub>)</b>					
<b>Decade</b>	1	700mA	700mA	700mA	700mA
	2	200mA	200mA	200mA	200mA
	3	70mA	70mA	70mA	70mA
	4	20mA	20mA	20mA	20mA
	5	–	7mA	7mA	7mA
	6	–	–	1mA	1mA
	7	–	–	–	0.1mA
<b>GENERAL</b>					
<b>Resistance Range</b>		1Ω to 11.11kΩ	1Ω to 111.11kΩ	1Ω to 1.11111MΩ	1Ω to 11.11111MΩ
<b>Accuracy</b>		1%	1%	1%	1%

Capacitance Decade Box		
MODEL	BC05	
<b>RANGE</b>		
<b>Decade</b>	1	0.1 to 1nF
	2	1 to 10nF
	3	10 to 100nF
	4	100nF to 1μF
	5	1 to 10μF
<b>GENERAL</b>		
<b>Total Capacitance</b>	11.111μF	
<b>Residual Capacitance</b>	25pF (approx)	
<b>Accuracy</b>	3% (low residual capacitance)	
<b>Max Operating Voltage</b>	300V <sub>DC</sub> , 230V <sub>AC</sub> (50Hz)	



ORDERING INFORMATION	CATALOG NO.
Resistance Decade Box Model BR04 (x1Ω, x10Ω, x100Ω, x1kΩ, 1%)	2131.22
Resistance Decade Box Model BR05 (x1Ω, x10Ω, x100Ω, x1kΩ, x10kΩ, 1%)	2131.23
Resistance Decade Box Model BR06 (x1Ω, x10Ω, x100Ω, x1kΩ, x10kΩ, x100kΩ, 1%)	2131.24
Resistance Decade Box Model BR07 (x1Ω, x10Ω, x100Ω, x1kΩ, x10kΩ, x100kΩ, x1MΩ, 1%)	2131.25
Capacitance Decade Box Model BC05 (x0.1nF, x1nF, x10nF, x100nF, x1knF, 3%)	2131.26

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