4221-B, 4222-B and 4223-B Reichsanstalt-Type Resistance Standards

Low-resistance comparison standards (0.001 to 0.1 ohm). Used in the accurate measurement of current with a potentiometer, and as standards for comparison in low-resistance measurements.

4224-B-A L&N-Type 0.0001-Ohm Resistance Standard

Four-terminal resistance standards with high current capacity. Similar to the Reichsanstalt resistors, these resistors are designed to be used in measuring relatively high currents, or as four-terminal resistance standards with high current capacity.

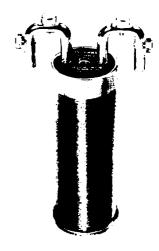
4015-Series NBS-Type Resistance Standards

Designed for use as standards in industrial, research and educational laboratories. Made from selected wire, stress-relieved and aged to assure stability, and constructed so as permit immersion of the complete unit in oil. An L&N Report of Calibration is supplied which gives (1) temperature coefficient data and (2) measured value at 25.0 C.

HOW TO ORDER Specify catalog number.

For more information, see Data Sheet A5.1111.





Туре	Integral Standards			Intermediate Standards			Limit of Error**			
	Catalog Number	Resistance (Ohms)	Current Rating (Amperes)	Cetalog Number	Resistance (Ohms)	Wattage Rating	Adjustment to Nominal Value	Measured Value Stated to:	Accuracy of Measured Value***	Size
LEN	4224-B-A150	0.0001	150				±0.01%	±0.001%	±0.003%	7" x 71/2" x 31/2"†
	4224-B-A300		300	_					±0.005%	101/2" dia. x 12" (h)††
Reichsanstalt	4223-B	0.001	30 100	_	_	1 Watt 10 Watts	±0.005%	±0.0001%	±0.002% (30 amps) ±0.05% (100 amps)	7" x 7½" x 3½"; 3 lb.†††
	4222·B	0.01	10 30	4222-B-X □*	0.002, 0.005, 0.02 or 0.05		±0.003%	±0.0001%	±0.001% (for smaller current figure) ±0.05% (for larger current or wattage fig.)	7" x 6" x 3%"; 2 lb.▲
	4221 · B	0.1	3 10	4221 · B · X □*	0.2, 0.5, 2.0, 5.0 or 10					
National Bureau of Stndards	4015-B	0.1	3		-	1 Watt	±0.05%	±0.01%	±0.05%	7" (h) x 1½" dia. (179 x 48 mm)
	4020-B	1	0.3 1.0	4020 B X 🗆	2 to 9 ohms in incre- ments of 1 ohm		±0.003%	±0.0001%	±0.001%**** (for smaller current figure) ±0.02% (for larger current or wattage figure)	
	4025 B	10	0.1 0.3	4025-B-X □	15 to 95 ohms in incre- ments of 5 ohms					
	4030 B	100	0.03 0.1	4030⋅B⋅X 🗀	110 to 990 ohms in in- crements of 10 ohms					
	4035-B	1000	0.01 0.03	4035-B-X □	1100 to 9900 ohms in increments of 100 ohms					
	4040-B	10,000	0.003 0.01	4040-B-X 🗆	11,000 to 99,000 ohms in increments of 1000 ohms					
	4045-B	100,000	0.001 0.003	_	_		±0.005%			
	4050-B	1,000,000	0.0003	_	_	0.1 Watt		± 0.0001%	±0.002%	

^{*}To specify desired resistance, add the basic multiplier in the blank following the letter "X" Examples: 4020-B-X5 identifies a 5-ohm standard; 4030-B-X5 a 500-ohm standard, 4035-B-X7 5 a 7500 ohm standard, etc. For "Intermediate" values, consult your nearest L&N office.

*The value of resistance given is in terms of the U.S. Legal Unit and is traceable to a set of reference standards maintained by L&N and calibrated at regular

^{**}The value of resistance given is in ferms of the U.S. Legal Unit and is traceable to a set of reference standards maintained by E&N and calibrated at regular intervals by the NBS.
**At time of calibration. Measured value will remain stable for one year within 10 ppm for standards between 0.01 ohms, and 10K ohms, 20 ppm below 0.01.

ohms or above 10K ohms.

****Applies to integral standards only. For intermediate values, adjustment is ±0.005%, and accuracy is ±0.002% for smaller waitage ligure

¹¹⁷⁹ x 190 x 89 mm. 1 1267 x 305 mm. 1 1179 x 190 x 89 mm; 1.3 kg. 4179 x 152 x 92 mm; 0.9 kg.