

High Value Decade Resistance Box



Series : 8400/ 8400HV

Features

- High precision through highly reliable resistance element & skilled construction
- Calibration verification on 20 years stability data of the Master Calibration Standards
- CMC of the order of 0.03% to 1.5%
- Safety factor 1.25 applied in designing
- 15 years maintainability assured.

Applications

For the calibration of:

- Insulation Testers upto 10 kV
- Megohm Meters
- Digital Meters
- Insulation Bridges
- Components comparison
- NABL Calibration Labs

Technical Data

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| • Function | : Calibration Resistance Standard |
| • Range/ Resolution | : 100 k Ω to 11.111111 T Ω / 100.0 k Ω |
| • Switches | : Silver or Gold plated, self wiping, spring loaded |
| • Switch Resistance | : ≤ 5 m Ω |
| • Switch Material | : Glass Epoxy |
| • Resistor Element | : Non Inductive, High Voltage, Epoxy Coated |
| • Stability | : 1/3 of Accuracy (yearly) |
| • Temperature Coefficient | : 100 k Ω to 1.0 G Ω ≤ 25 ppm/ $^{\circ}$ C, 1.0 G Ω to 1 T Ω ≤ 100 ppm/ $^{\circ}$ C, above 1 T Ω 250ppm/ $^{\circ}$ C |
| • Voltage Coefficient >5 kV | : Upto 1 T Ω ≤ 3 ppm/volt & above 1 T Ω ≤ 12 ppm/volt |
| • Instrument Housing | : Mild Steel with anti-rust powder coated |
| • Maximum Voltage to Case | : 1 kV for 8400 & 5/10 kV for 8400HV |
| • Dielectric Voltage | : 500 Volt AC for one minute |
| • Calibration Certificate (Optional) | : ISO/IEC 17025 compliant or Factory Cal. Certificate. |
| • Accessories (Optional) | : Carrying case & Connecting Cables. |

Decade	Step Resistance (Ω)	Total Resistance (Ω)	Maximum Voltage (V)			Accuracy			
			8400	8400-5 kV	8400-10 kV	Ultra Precision	Precision	Standard	Economy
First	100 k	1 M	1000	1000	1000	$\pm 0.01\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 2\%$
Second	1 M	10 M	1000	1000	1000	$\pm 0.01\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 2\%$
Third	10 M	100 M	1000	5000	5000	$\pm 0.03\%$	$\pm 0.5\%$	$\pm 1\%$	$\pm 3\%$
Fourth	100 M	1000 M	1000	5000	10000	$\pm 0.1\%$	$\pm 0.5\%$	$\pm 1\%$	$\pm 3\%$
Fifth	1 G	10 G	1000	5000	10000	$\pm 0.2\%$	$\pm 0.5\%$	$\pm 1\%$	$\pm 3\%$
Sixth	10 G	100 G	1000	5000	10000	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 1\%$	$\pm 5\%$
Seventh	100 G	1 T	1000	5000	10000	$\pm 0.5\%$	$\pm 1.5\%$	$\pm 2\%$	$\pm 5\%$
Eight	1 T	10 T	1000	5000	10000	$\pm 3\%$	$\pm 3\%$	$\pm 5\%$	$\pm 10\%$
* Total Resistance Available: 11.111111 T Ω									

ISO 17025 Compliant Calibration Facilities