

Decade Resistor Box



8400 HVSD

Features

- High precised, highly reliable element
- 20 years stability data of the Master Standards
- CMC of the order of 0.03% to 1.5%
- Safety factor 1.25 is applied in designing

Applications

For the calibration of:

- Insulation Testers $\geq 10\text{ kV}$
- Megohm Meters
- Digital Meters
- Insulation Bridges

Technical Data

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| • Function | : Calibration Resistance Standard |
| • Resistance Range | : 1 k Ω to 10 T Ω |
| • Switches | : Silver or Gold plated, self wiping, spring loaded |
| • Switch Resistance | : $\leq 5\text{ m}\Omega$ |
| • Switch Material | : Glass Epoxy |
| • Resistor Element | : Non Inductive, High Voltage, Epoxy Coated |
| • Stability | : 1/3 of Accuracy (yearly) |
| • Temperature Coefficient | : $\leq 10\text{ ppm}$ upto 10k Ω , 100 k Ω to 1 G Ω $\leq 25\text{ ppm}/^\circ\text{C}$,
1 G Ω to 1 T Ω $\leq 100\text{ ppm}/^\circ\text{C}$, above 1 T Ω 250ppm/ $^\circ\text{C}$ |
| • Voltage Coefficient | : Upto 1 T Ω $\leq 3\text{ ppm/volt}$ & above 1 T Ω $\leq 12\text{ ppm/V}$ |
| • 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. |

Nominal Value	Maximum Voltage (In Volts)			Accuracy			
	8400	8400-5 kV	8400-10 kV	Ultra Precision	Precision	Standard	Economy
1k	50	50	50	$\pm 0.01\%$	$\pm 0.02\%$	$\pm 0.05\%$	$\pm 0.5\%$
10k	150	150	150	$\pm 0.01\%$	$\pm 0.02\%$	$\pm 0.05\%$	$\pm 0.5\%$
1 M	1000	1000	1000	$\pm 0.01\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 2\%$
10 M	1000	1000	1000	$\pm 0.01\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 2\%$
100 M	1000	5000	5000	$\pm 0.03\%$	$\pm 0.5\%$	$\pm 1\%$	$\pm 3\%$
1000 M	1000	5000	10000	$\pm 0.1\%$	$\pm 0.5\%$	$\pm 1\%$	$\pm 3\%$
10 G	1000	5000	10000	$\pm 0.2\%$	$\pm 0.5\%$	$\pm 1\%$	$\pm 3\%$
100 G	1000	5000	10000	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 1\%$	$\pm 5\%$
1 T	1000	5000	10000	$\pm 0.5\%$	$\pm 1.5\%$	$\pm 2\%$	$\pm 5\%$
10 T	1000	5000	10000	$\pm 3\%$	$\pm 3\%$	$\pm 5\%$	$\pm 10\%$

ISO 17025 Compliant Calibration Facilities