

Fixed Value Insulation Tester Calibration System



Series : 9409FV

Features

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

Applications

For the calibration of:

- Meggers (upto 10 kV)
- Megohm Meters
- Insulation Testers
- Digital Meters
- Insulation Bridges

Technical Data

• Function	: Calibration Resistance Standard
• Resistance Range/ Resolution	: 1kΩ to 20TΩ/ 1kΩ
• Resistor Element	: Non Inductive, High Voltage, Epoxy Coated
• Stability	: 1/3 of Accuracy (yearly)
• Temperature Coefficient	: 10ppm upto 10kΩ, 100 kΩ to 1.0 GΩ ≤ 25ppm/°C, 1.0 GΩ to 1 TΩ ≤ 100ppm/°C, above 1 TΩ 250ppm/°C
• Voltage Coefficient >5 kV	: Upto 1 TΩ ≤ 3ppm/volt & above 1 TΩ ≤ 12ppm/volt
• Instrument Housing	: Mild Steel with anti-rust powder coated
• Maximum Voltage to Case	: 1 kV/5kV/10kV
• 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 (Ω)	Maximum Voltage (V)			Accuracy			
	9409FV-1kV	9409FV-5kV	9409FV-10kV	Ultra Precision	Precision	Standard	Economy
1 k	50	50	50	±0.01%	±0.02%	±0.05%	±0.5%
10 k	150	150	150	±0.01%	±0.02%	±0.05%	±0.5%
0.1 M	1000	1000	1000	±0.01%	±0.5%	±0.5%	±2%
1 M	1000	1000	1000	±0.01%	±0.5%	±0.5%	±2%
10 M	1000	5000	5000	±0.03%	±0.5%	±1%	±3%
100 M	1000	5000	10000	±0.1%	±0.5%	±1%	±3%
1 G	1000	5000	10000	±0.2%	±0.5%	±1%	±3%
10 G	1000	5000	10000	±0.5%	±0.5%	±1%	±5%
100 G	1000	5000	10000	±0.5%	±1.5%	±2%	±5%
1 T	1000	5000	10000	±3%	±3%	±5%	±10%
10 T	1000	5000	10000	±5%	±3%	±5%	±10%
20 TΩ	1000	5000	10000	±8%	±10%	±10%	±15%

ISO 17025 Compliant Calibration Facilities