

INSULATION RESISTANCE / HIGH RESISTANCE DECADE STANDARD

Model : QIRS-5 AND QIRS-10

FEATURES:

- High precision, high stability over the years
- Calibration and Measurement capability of the order of 0.002% to 1.5%
- Construction : Portable in powder coated metallic cabinet.
- Low Voltage Coefficient : ≤ 3 to 2 ppm/V
Resistance Range : 0.0001 Ohm to 11 Tera Ohm

APPLICATIONS :

- Calibration of Insulation Resistance Tester, Megohm Meters, Insulation Bridges, Digital Meters and sensors
- Instrumentation Laboratories



TECHNICAL SPECIFICATIONS

Function	Calibration Resistance Standard
Resistance Range/Resolution	100K Ω to 11.111111 T Ω in Eight decades / 100 K Ω
Switch Resistance	≤ 5 milli Ω
Temperature Coefficient	≤ 25 ppm/ $^{\circ}$ C (100K Ω to 1 Giga Ω) 100 ppm/ $^{\circ}$ C (> 1 Giga Ω to 1 Tera Ω), 250 ppm/ $^{\circ}$ C (> 1 Tera Ω)
Switches	Silver to Silver or Gold plated contact switches
Voltage Coefficient (Applicable >5 kV)	≤ 3 ppm/volt up to 1T Ω & ≤ 12 ppm/ volt >T Ω
Construction/Housing Case	Portable in metallic cabinet
Maximum Voltage to Case	5KV/10KV
Traceability Drift	0.0004

DECADE DIAL	TOTAL DECADE	MAX. VOLTAGE		ACCURACY	NABL COMPLIANT
		QIRS -5	QRIS-10	PRECISION	
100 K Ω	1 M Ω	1000 V	1000 V	$\pm 0.5\%$	0.03% to 1.5%
1 M Ω	10 M Ω	1000 V	1000 V	$\pm 0.5\%$	
10 M Ω	100 M Ω	5000 V	5000 V	$\pm 0.5\%$	
100 M Ω	1 G Ω	5000 V	10000 V	$\pm 0.5\%$	
1 G Ω	10 G Ω	5000 V	10000 V	$\pm 0.5\%$	
10 G Ω	100 G Ω	5000 V	10000 V	$\pm 1\%$	
100 G Ω	1 T Ω	5000 V	10000 V	$\pm 2\%$	
1 T Ω	10 T Ω	5000 V	10000 V	$\pm 3\%$	

We also Manufacture

1. Capacitance and Tan Delta Standard
2. Ratio Meter Standard
3. High Voltage Divider
4. Micro/ Milli Ohm Standard
5. Capacitor Decade
6. Various testing and measuring instruments

To keep pace with the latest technology Quadrant reserves the right to update it's system. Hence, information in the brochure is likely to change without notice.



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