

HIGH RESISTANCE METER

- 1 MΩ to 100 TΩ
- Direct or Substitution Measurements
- Automatic and Manual Operation
- No Temperature Coefficient
- Multiple Modes of Operation
- Variable 1 V to 1000 V DC
- 6.5 Digits of Resolution
- Compatible with Model 4610 and 4620 High Resistance Scanners

MODEL 6652A



MODEL 6652A HIGH RESISTANCE METER

After years of development of high resistance bridge measurement systems and resistance standards, Measurements International (MI) is pleased to announce the launch of the 6652A High Resistance Meter, available in two configurations: Base and Premium.

The 6652A offers users flexible operation in a simple, easy to use "meter like" package.

The model 6652A High Resistance Meter is designed to measure high resistances in the range of 1 M Ω to 100 T Ω . The simplified construction and operation offers a more user-friendly approach to high resistance measurements, and to improve measurement speed over other single input devices.

Direct Measurement Mode: In this mode, the 6652A offers users the ability to quickly establish nominal values of resistances, measure insulation resistance and volume and surface resistivity. This mode is also useful for determining resistors time constant, as well as voltage and temperature coefficients.

Resistor Substitution Measurements: (Only available for 6652A Premium) In this mode, high accuracy is obtained. The measurement of a standard of known resistor is automatically compared to a resistor under test. With this method, any hardware drift and instability are taken in account, consequently are corrected for the unknown resistance measurement.

Voltage Range: The voltage range of the 6652A Basic is variable from 1 V to 1000 V. The voltage setting is indicated on the front panel display.

Operation: The front panel offers users simple and intuitive measurement options. Features include resistor protection, voltage setting, settle time of the resistor, number of measurements, number of statistics and graphing.



The model 4610A (10) and 4620A (20) were

developed to allow the 6652A to automate

the process of measuring multiple high value

resistors such as the model 9331G.



Model 9331G

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Measurements International Metrology is Our Science, Accuracy is Our Business[™]

MODEL 6652A HIGH RESISTANCE METER

pecificatio	pecifications: Rev 3		MEASUREMENT RESISTOR VALUE								
Applied (l V Range V)	Ior	1 10	. / .	loc	0 ⁰ 10 ⁰	6 <u>1</u> 6	Tor	01 M	w tw	
500	1000					Í	Í				
100	499										
50	99										
10	49										
5	9.9										
2	4.95										
1	1.99										
Direct Readi applied vo	ng Spec with Itage > 5 V	3500	2000	1000	800	500	250	150	150	150	
Ratio ¹ Spec 1:1		1500	750	300	100	70	70	50	50	50	
Ratio ¹ Spec 1:10		3000	1500	500	250	170	170	150	150	-	
Ratio ¹ Spec 1:100		3000	1500	500	250	170	170	150	-	-	
Stability ³		< 1000	< 500	< 100	< 50	< 50	< 50	< 50	< 50	< 50	
Temp Coeff (ppm/°C) ²		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	
Spec ution: Do not ex	ceed Resistor sp	2 X Spec	vith respe	ct to volta	5 X Spe	ec nt or powe	er	10 X	Spec		
		Acc	Accuracy (× 10 ⁻⁶)			tability ³ (× 10⁻⁵)	.0 ⁻⁶) Resolution			
Voltage Source			1000			30			6 Digit		
Voltage Measurement			50			30			6 Digit		
Dimensions (W × D × H): 483 × 565 × 178 (mm) Main Power: 100 – 240 V, 50/60 Hz, 100 VA		/A max.	A max.			Weight: 12 kg			Shipping Weight : 17 kg		
ccessories: ables: N to N, ir Bath: 9300 d	N to BPO, N t or 9300A	to Alligator,	. N to Ot	her	Standa and 93	ard Resis 331G Ser	tors: 933 ies (100	81 series MΩ to 1	s (1 ΜΩ 100 ΤΩ)	and 10 M	
Drporate Headquarters V leasurements International M D Box 2359, 118 Commerce Drive P rescott, Ontario, Canada KOE 1TO E		Worldwide MI-USA Phone: 407-7 Email: sales@	MI-Eu Phone Email:	MI-Europe I Phone: +(420) 731-440-663 F Email: sales@mintl.com F			a -(91) 98 10 iles@MILL) 134 932 .P.co.in			
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