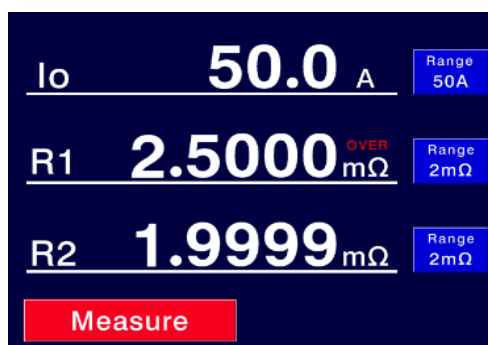


## INDUCTIVE RESISTANCE METER DAC-MR-50L

DAC-MR-50L is an instrument designed for winding resistance measurement of large power transformers. Conventionally, measuring the winding resistance of large transformers required a long time until the coils are saturated and the test current flows constantly through the windings. DAC-MR-50L can quickly saturate transformer coils by applying a measuring current up to 50A/150VDC, significantly reducing the measurement time.



- Stable measurement with resolution 0.01 $\mu\Omega$ .
- High-Speed and High-Performance with output voltage Max 150VDC.
- 2-channels for simultaneous measurements of two different windings.
- Simple operation and easy reading with large LCD screen.
- Communication with PC software via USB.



The measurement current can be selected from 6 points (1A, 10A, 20A, 30A, 40A, 50A), and resistance can be measured from 0.1 $\mu\Omega$  to 10 $\Omega$ .

- Io** : Test Current  
(1A/10A/20A/30A/40A/50A)
- R1** : Resistance (4 ranges)  
(LOW, MD, HIGH, VERY HIGH)
- R2** : Resistance (4 ranges)  
(LOW, MD, HIGH, VERY HIGH)

# DAC-MR-50L INDUCTIVE RESISTANCE METER

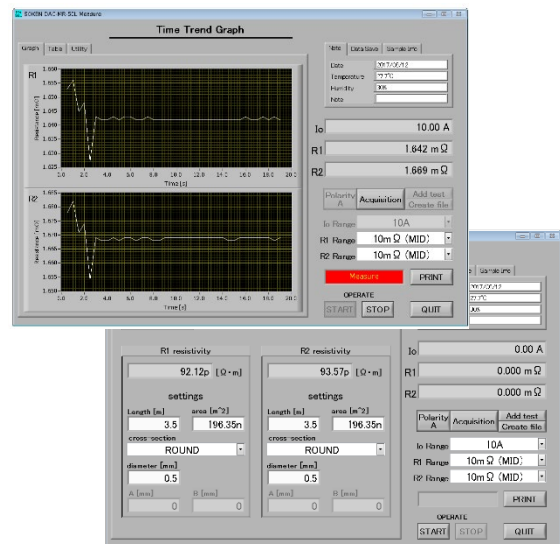
## SPECIFICATIONS

Measurement current	1A/10A/20A/30A/40A/50A		
Measurement range	0.1μΩ – 10Ω		
Max output voltage	150VDC		
Accuracy of measurement current		±10% Rating	
Accuracy (1A range)	MID/HIGH RANGE	±(0.5% Rdg + 0.03% FS)	
	LOW RANGE	±(0.5% Rdg + 0.3% FS)	
Input power	AC100V/ 200V (50/60Hz)		
Interface	USB		
Size and weight	W430xH250xD380mm	About 18kg	
Accessory	Current cable (10m x 2) ・ Voltage detect cable (10m x 4) ・ GND cable ・ AC power cord		

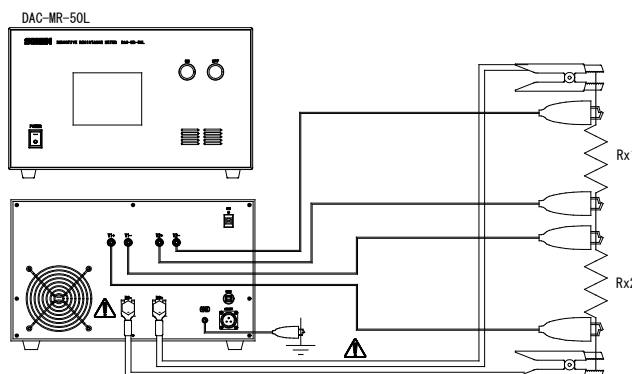
## MEASUREMENT RANGE

Measurement current	Resistance range	Full-scale	Resolution
<b>50A</b>	LOW	200μΩ	0.01μΩ
	MID	2mΩ	0.0001mΩ
	HIGH	20mΩ	0.001mΩ
	VERY HIGH	200mΩ	0.01mΩ
<b>40A</b>	LOW	250μΩ	0.01μΩ
	MID	2.5mΩ	0.0001mΩ
	HIGH	25mΩ	0.001mΩ
	VERY HIGH	250mΩ	0.01mΩ
<b>30A</b>	LOW	330μΩ	0.01μΩ
	MID	3.3mΩ	0.0001mΩ
	HIGH	33mΩ	0.001mΩ
	VERY HIGH	330mΩ	0.01mΩ
<b>20A</b>	LOW	500μΩ	0.1μΩ
	MID	5mΩ	0.001mΩ
	HIGH	50mΩ	0.01mΩ
	VERY HIGH	500mΩ	0.1mΩ
<b>10A</b>	LOW	1mΩ	0.0001mΩ
	MID	10mΩ	0.001mΩ
	HIGH	100mΩ	0.01mΩ
	VERY HIGH	1Ω	0.0001Ω
<b>1A</b>	LOW	10mΩ	0.001mΩ
	MID	100mΩ	0.01mΩ
	HIGH	1Ω	0.0001Ω
	VERY HIGH	10Ω	0.001Ω

## PC SOFTWARE



- PC control is possible through USB interface.
- Time variation of resistance value can be displayed in a graph.
- Data is saved in csv format.



**Capable of measuring two circuits simultaneously.**

The same current can be applied to the primary and secondary of a transformer, and the appropriate resistance range can be selected for each measurement.

*The specifications are subject to change without notice.*  
April 2025

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