

RESISTANCE BOX/UL RL01-TOS

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KIKUSUI PART No. Z1-000-682 IA000811

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Chapter 1 GENERAL DESCRIPTION

The RL01-TOS Resistance Box is a high-voltage variable resistance device which has been designed to test the output voltage of a withstanding voltage tester (dielectric strength tester) which is to be used to verify the dielectric strengths of products on a manufacturing line, complying with the requirements of UL 1270, Appendix C and UL1492, Appendix C. The output voltage test, in effect, is an output voltage regulation test of the withstanding voltage tester.

Chapter 2 PRECAUTIONS

2.1 Receiving Inspection

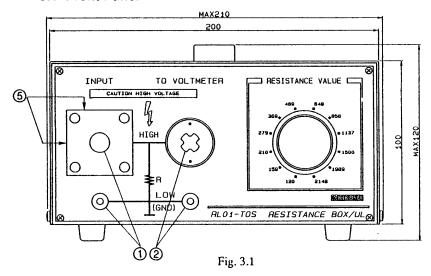
Immediately upon receipt of the device, inspect it for any damage which might have been sustained while in transportation. If any signs of damage are found, immediately notify your KIKUSUI agent.

2.2 Notes and Precautions

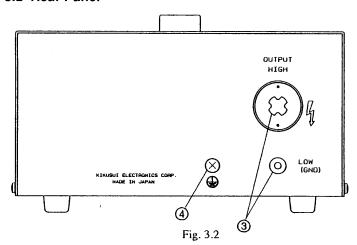
- (1) The RL01-TOS deals with a hazardously high voltage. In order to prevent electric shock hazards, be extremely careful when handling it.
- (2) Be sure that the protective grounding terminal (4) of the RL01-TOS, together with the protective grounding terminal of the withstanding voltage tester, is securely connected to a grounding earth line.
- (3) Be sure that the cable which runs from the withstanding voltage tester is securely connected to the INPUT connector (rectangular connector) of the RL01-TOS. Securely fix the connector with the plastic screws (5) to guard against disconnection.
- (4) Be sure that the LO line [LOW (GND) line] also is securely connected.

Chapter 3 OPERATION METHOD

3.1 Front Panel



3.2 Rear Panel

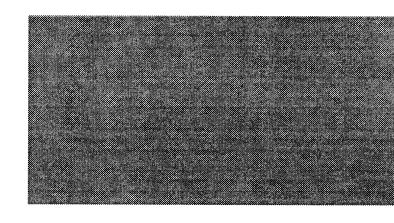


3.3 Connecting Method

- (1) Connect the INPUT terminals ① shown in Figure 3.1 to the output terminals of the withstanding voltage tester.
- (2) Connect a high voltage volumeter to the TO VOLTMETER terminals ② shown in Figure 3.1.
- (3) Connect the device to be tested to the OUTPUT terminals ③ shown in Figure 3.2.
- (4) The terminals ①, ②, and ③ are connected in parallel within the RL01-TOS. You may use terminals ② and ③ interchangedly, if such is more convenient for your use.

Chapter 4 SPECIFICATIONS

Item	Specification					
Resistance	Selectable with a rotary switch for 12 resistances.					
		120 kΩ	369 kΩ	1,137 ks	<u>, </u>	
		159 kΩ	489 kΩ	1,500 kΩ		
		210 kΩ	648 kΩ	1,989 ks		
		279 kΩ	858 kΩ	2,148 ks		
		2// 832	0.00 K32	Z,140 K3	<u>.</u>	
	When resistances are reduced stepwise from the					
,	maximum value to lower values, the rate of					
	resistance reduction is not greater than 25% of the					
T	preceding value for each step of resistance change.					
Resistance Accuracy	When set at 120 kΩ: Nominal resistance +1%, -0					
	ŀ	et at other resistances:				
	Nominal resistance ±1%					
Maximum Operable 1300 V (rated voltage for continuous operation)						
Voltage	(and the second of the second					
Short-period	riod Allowable up to 1400 V for up to 5 seconds					
Overvoltage						
Terminals	Output terminals and voltage check terminals					
Ambient Conditions	Specification range:					
	5 to 35°C (41 to 95°F), 20 to 80%RH					
	Storage range: -20 to 70°C (-4 to 158°F), ≤80%RH					
Dimensions of Casing	200 W × 100 H × 260 D mm					
	(7.87 W × 3.94 H × 10.24 D in.)					
	Dimensions of Maximums:					
	210 W × 120 H × 300 D mm					
	(8.27 W × 4.72 H × 11.81 D in.)					
Weight		(5.7 lbs)				
Accessories	_	oltage test ca			2 sets	
	_	oltage test ca			1 set	
	"DANG	GER! HIGH	VOLTAGE"	label	1 sheet	



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