

High-Voltage Digital Voltmeter

■ 149-10A



- Measurement of high voltages (AC/DC) of up to 10 kV maximum.
- Large 4 1/2 digit LED display
- High measuring accuracy and input resistance
- Light weight of only 3.2 kg
- Compact design
- Excellent ease of maintenance

Specifications	
Operating System	Double integration system (sampling cycle: 3 times/sec)
DC Voltage	Measuring range: 0.500kV to 10,000kV Accuracy: $\pm 0.5\%$ of reading + 0.03% of range Input resistance: 1000 M Ω \pm 2%
AC Voltage	Measuring range: 0.500kV to 10,000kV Accuracy: $\pm 1\%$ of reading + 0.05% of range Frequency characteristics: 50/60 Hz (sine wave rms value display of mean value response) Input resistance: 1000 M Ω \pm 2%
Power Requirements	100V \pm 10%, approx. 10 VA
Dimensions (MAX)	134W \times 164H \times 270D mm (140W \times 189H \times 350D mm)
Weight	approx. 3 kg
Accessories	TL05-TOS high-voltage test lead: 1 HTL-2.5DH high-voltage coaxial cable: 1

Hipot Tester Current Calibrator

■ TOS1200



- Calibration of Leakage Current Detection Sensitivity
- Direct Reading of Error from Error Display Scale
- Ammeter Ranges
- Eliminates Need for Power Supply
- AC/DC Selection Switch

Specifications			
Measuring Function	Measurement of current values and error(%) for AC (50/60 Hz) and DC at a test voltage of 1000 V		
Measuring Ranges	8 ranges consisting of 0.5/1/2/5/10/20/50/100 mA along with values equal to 0.8 times the values of those ranges (for 1, 2, 4 and 8 steps)		
Ammeter Scale	Main scale: Direct-reading error display scale over a range of $\pm 10\%$ of the above full scale values Auxiliary scale: Ratio scale of 0 to 1.1 times the above full scale values (equivalent to 0% display of main scale when the ratio is equal to 1)		
Ammeter Accuracy	Main scale: $\pm 1\%$ of reading Auxiliary scale: $\pm 3\%$ of full scale value		
Ammeter Indication	DC/AC (sine wave rms value calibration of mean value response)		
Load Resistance			
Range[mA]	Resistance[k Ω]	Range[mA]	Resistance[k Ω]
0.5	2000	10	100
1	1000	20	50
2	500	50	20
5	200	100	10
Allowed Input Time	0.5/1/2/5 mA ranges: Continuous 10/20/50/100 mA ranges: 60 sec. Max. 1/3 of duty cycle		
Dimensions (MAX)	134W \times 164H \times 270D mm (140W \times 189H \times 320D mm)		
Weight	approx. 3.5 kg		
Accessories	TL04-TOS high-voltage test lead: 1		

UL Resistance Load

■ RL01-TOS



This device is described in section 125, paragraph 2-1B1 of UL1492. The RL01-TOS is a variable load resistor for checking the output voltage of hipot testers used in dielectric strength testing on production lines. (Complies with UL regulations including UL1270, UL1409 and UL1410.)

Specifications	
Resistors:	120, 159, 210, 279, 369, 489, 648, 858, 1,137, 1,500, 1,989 and 2,148 kW
Resistance Accuracy	+1%,-0% of nominal value when set to 120 kW, $\pm 1\%$ of nominal value when set to other values
Maximum Operating Voltage	1300 V (continuous rating)
Maximum Overload Voltage	1400 V for 5 seconds (application may not be repeated within 1 minute)
Dimensions (MAX)	200W \times 100H \times 260D mm (210W \times 120H \times 295D mm)
Weight	approx. 2.6 kg
Accessories	TL04-TOS high-voltage test lead: 2 TL05-TOS high-voltage test lead: 1

Calibration Resistor for Insulation Resistance Tester

■ 929-1M
■ 929-10M
■ 929-100M



The 929 Series Standard Resistors are for calibration of Insulation Testers.

Specifications			
Model	929-1M	929-10M	929-100M
Nominal resistance	1M Ω	10M Ω	100M Ω
Accuracy of resistance	1% at 25°C \pm 10°C		
Temperature coefficient	100 ppm/°C or better		
Voltage coefficient	1 ppm/V or better		
Working voltage rating	1.2 kV		
Dimensions (MAX)	64W \times 24H \times 30D mm		



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