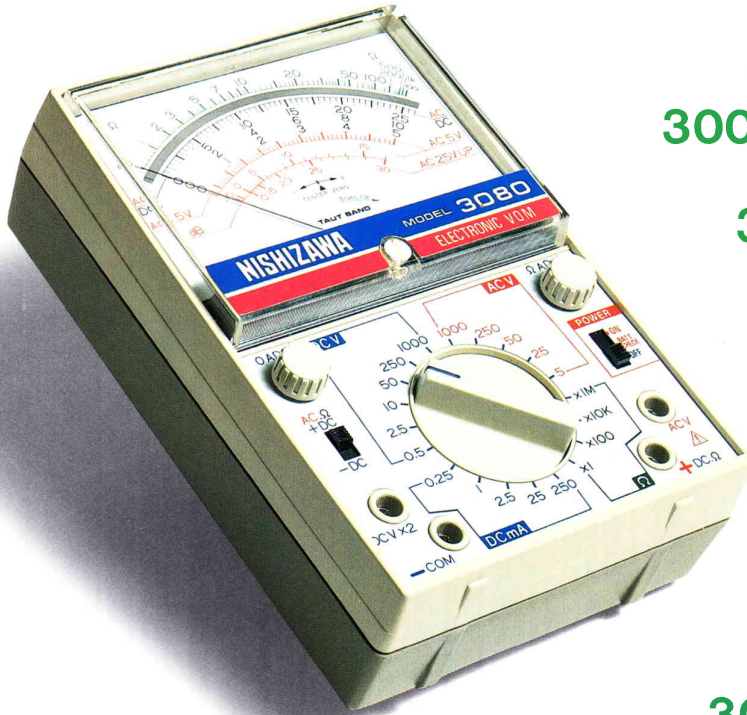


AMM

Analog Multi Meters



3004 TESTER(33K Ω /V)

3007 TESTER(33K Ω /V)

3009 TESTER(50K Ω /V)

3010 TESTER(100K Ω /V)

3011 TESTER(40K Ω /V)

3015 TESTER(20K Ω /V)

3080 ELECTRONIC TESTER



MULTI METERS

WARNING



In some cases, power lines may carry voltage spikes of several times the normal supply voltage. For reasons of safety, ordinary testers should not be used to measure power lines carrying more than 250V. When measuring such power lines, always use a tester with built-in overcurrent protection to guard against short circuits.

Note: The term "power line" refers to the entire electrical circuit providing power to factories, buildings and industrial machines. However, it does not include electrical circuits in ordinary dwellings (lines protected by fuses or circuit breakers).

9090-01

Probe (with Fuse Protection)

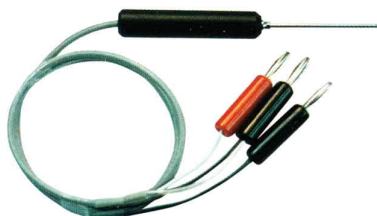


Compatible Models

9090-01 : 3004, 3007, 3009, 3010, 3011, 3015, 3080

9021-01

THERMISTOR TEMPERATURE PROBE



Compatible Models

9021-01 : 3007, 3015, 3021

• -50°C to 200°C can be measured

CARRYING CASE

The carrying case will help protect the unit from damage if it is subjected to shock, such as by accidental dropping, as well as preventing scratches and dust.

* Depending on the specific item, it is often more advantageous to purchase the case together with the instrument itself. Refer to the price information for each product.

Model	Compatible Models
9051	3007
9085	3004 · 3009 · 3010 · 3011 · 3080
9088 *	3015
9144 *	3015

FUSE

0.5A/250Vφ6.4×30
0.5A/250Vφ6.4×30 (non arcing type)
2A/250Vφ6.4×30 (non arcing type)
15A/250Vφ6.4×30 (non arcing type)

3004

33kΩ/V



VOM with Capacitance Measurement

- Provided with capacitance function.
- Measures transistors hFE.
- Zero-center voltage scale.
- LI and LV scales.
- Polarity switching circuit.
- Resistance measurements up to 30MΩ.

3007

33kΩ/V



Electronic Circuit Testing

- Optional accessories enable transistor hFE and temperature measurements.
- LI and LV scales.
- Polarity switching circuit.

SPECIFICATIONS

Item		3004	3007
DC Voltage	Fullscale Value	0.12/3/12/30 (±15)/120/300/1200V (33kΩ/V)	0.12/1.2/3/12/30/120/300/1200V (Max. 1000V)
	Accuracy	±2.5% of fullscale value	
AC Voltage	Fullscale Value	6/30/120/300/1200V (10kΩ/V)	6/30/120/300/1200V (10kΩ/V)(Max. 1000)
	Accuracy	±2.5% of fullscale value	
DC Current	Fullscale Value	30μA/3/30/300mA	30μA/3/30/300mA/6A
	Accuracy	±3% of fullscale value	
AC Current	Fullscale Value	—	—
Resistance	Fullscale Value	3k/300k/3M/30MΩ (25Ω Center Value)	3k/300k/30MΩ (25Ω Center Value)
	Accuracy	±3% of scale length	
DB Scale	Fullscale Value	-10~+17dB/ +15~+31dB	-10~+17dB/ +15~+31dB
Additional Circuits		Capacitance 0.001 to 0.2μF/0.1 to 20μF Transistor h _{FE} : 0 to 600	Temperature Scale : -50 to +200°C (used with 9021) Transistor h _{FE} : 0 to 500 (used with 9091)
Batteries		R6P (AA) 6F22	R6P (AA) 6F22
Dimensions & Weight (H×W×D mm)		166×114×57 · 450g	133×93×49 · 330g
Accessories		9042 Test Leads Alligator Clips (1.set) hFE measurement lead 0.5A Fuse	9042 Test Leads (1 set) 0.5A Fuse
Ordering Information		—	—
Optional Accessories		9090-01 Probe (with Fuse Protection) 9085 Carrying Case (Leather)	9090-01 Probe (with Fuse Protection) 9021-01 Thermistor probe 9051 Carrying Case (Leather) 9091 h _{FE} Lead

300950k Ω /V**General-Purpose VOM**

- Versatile medium-range VOM.
- Measures up to 10A AC/DC.
- Polarity switching circuit.
- OUTPUT terminals.
- Measures up to 20M Ω .

3010100k Ω /V**10 μ A Sensitivity**

- High (100k Ω /V) input impedance with 100mV and 10 μ A ranges.
- Electronically controlled relay circuit protection.
- Measures AC current also.

301140k Ω /V **$\pm 2\%$ DC Accuracy**

- Wide selection of ranges.
- Full-wave rectification.
- Electronically controlled relay circuit protection.
- High-quality $\pm 2\%$ accuracy design.

301520k Ω /V**Drop-Proof**

- Protected up to 250VAC.
- 10A AC/DC measurements.
- Measures up to 15M Ω .

3080**ELECTRONIC TESTER****Versatile Electronic Tester**

- FET input with high-impedance (DC 10M Ω).
- DCV $\times 2$ input terminal.
- P-P rectification with wideband response (20Hz to 5MHz).
- Measures up to 1000M Ω .

3009	3010	3011	3015	3080
0.25/2.5/10/25/100/250/1000V (50k Ω /V)	0.1/1/3/10/30/100/300/1000V (100k Ω /V)	(0.25V)/2.5/5/10/25/50/100/250/1000V (40k Ω /V)	0.3/3/12/30/120/300/1000V (20k Ω /V)	0.5/2.5/10/50/250/1000V (DCV $\times 2$ input)(10M Ω)
$\pm 2.5\%$ of fullscale value	$\pm 2.5\%$ of fullscale value	$\pm 2\%$ of fullscale value	$\pm 2.5\%$ of fullscale value	$\pm 2.5\%$ of fullscale value
10/25/100/250/1000V (10k Ω /V)	10/30/100/300/1000V (10k Ω /V)	2.5/5/10/25/50/100/250/1000V(10k Ω /V)	12/30/120/300/1000V (9k Ω /V)	5/25/50/250/1000V (1M Ω)
$\pm 2.5\%$ of fullscale value	$\pm 2.5\%$ ($\pm 3\%$ for AC 10V)	$\pm 2.5\%$ of fullscale value	$\pm 2.5\%$ ($\pm 4\%$ for AC 12V)	$\pm 3\%$ of fullscale value
25 μ A/2.5/25/250mA/10A	10 μ A/1/3/30/300mA/10A	25/100/500 μ A 2.5/25/250mA/10A	(50 μ A)/3/30/300mA 10A	0.25/1/2.5/25/250mA
$\pm 3\%$ of fullscale value	$\pm 3\%$ of fullscale value	$\pm 2\%$ of fullscale value	$\pm 3\%$ of fullscale value	$\pm 2.5\%$ of fullscale value
10A ($\pm 4\%$)	10A ($\pm 4\%$)	25/100/500 μ A ($\pm 3\%$) 2.5/25/250mA/10A	10A ($\pm 4\%$)	—
2k/200k/2M/20M Ω (20 Ω Center Value)	3k/300k/3M/30M Ω (30 Ω Center Value)	3k/300k/3M/30M Ω (25 Ω Center Value)	500/50k/500k/15M Ω (20 Ω Center Value)	1k/100k/10M/1000M Ω (10 Ω Center Value)
$\pm 3\%$ of scale length	$\pm 3\%$ of scale length	$\pm 3\%$ of scale length	$\pm 3\%$ of scale length	$\pm 3\%$ of scale length
-20 ~ +22dB	-20 ~ +22dB	—	-10 ~ +23dB	-10 ~ +16dB/ +10 ~ +30dB
—	—	—	Temperature scale : -30 to +200 $^{\circ}$ C (used with 9021)	DCV $\times 2$ input 1/5/20/100/500/2000V ($\pm 3\%$)
R6P (AA) 6F22	R6P (AA) 6F22(2)	R6P (AA) 6F22(2)	R6P (AA) 6F22	R6P (AA) 6F22
166 \times 114 \times 57 · 480g	166 \times 114 \times 57 · 500g	166 \times 114 \times 57 · 550g	136 \times 92 \times 38 · 300g	166 \times 114 \times 57 · 480g
9046 Test Leads (1 set) 0.5A and 15A Fuses (non arcing type)	9046 Test Leads (1 set) 2A and 15A Fuses (non arcing type)	9046 Test Leads (1 set) 2A and 15A Fuses (non arcing type)	9066 Test Leads (1 set) 0.5A and 15A Fuses (non arcing type)	9046 Test Leads (1 set) 0.5A Fuse
—	—	—	3015-01 (with Carrying Case) 3015+9088 3015-02 (with Carrying Case) 3015+9144	—
9090-01 Probe (with Fuse Protection) 9085 Carrying Case (Leather)	9090-01 Probe (with Fuse Protection) 9085 Carrying Case (Leather)	9090-01 Probe (with Fuse Protection) 9085 Carrying Case (Leather)	9090-01 Probe (with Fuse Protection) 9021-01 Thermistor Probe 9088 Carrying Case (Plastic) 9144 Carrying Case (Leather)	9090-01 Probe (with Fuse Protection) 9085 Carrying Case (Leather)



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