

3111 MΩ Hi TESTER

**3111**

## Two-Range Insulation Resistance Testers

- 3111: 250V/50MΩ and 500V/100MΩ ranges
- 3111-02: 500V/200MΩ and 1000V/2000MΩ ranges



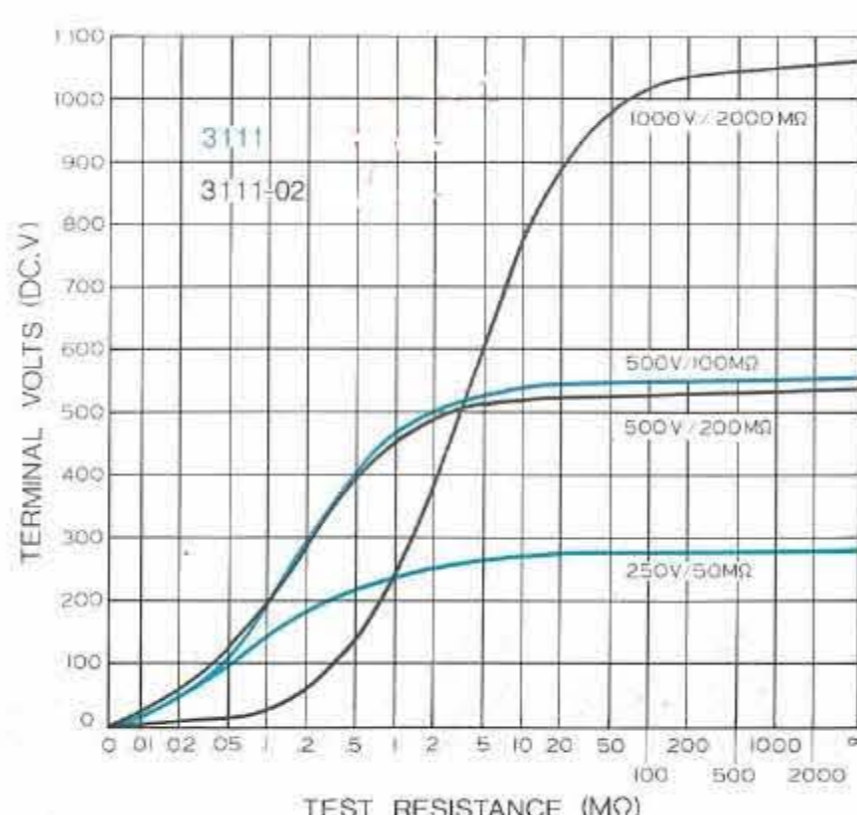


# Simple and quick pushbutton operation

## Features

- Two ranges to double usability
- Also provides AC voltage and ohms measurement capability
- Superior voltage stability characteristics
- No setting-up or adjusting required
- Automatic discharge for operator safety
- Fuse protection is provided on all ranges

## Typical Terminal Voltage Characteristics



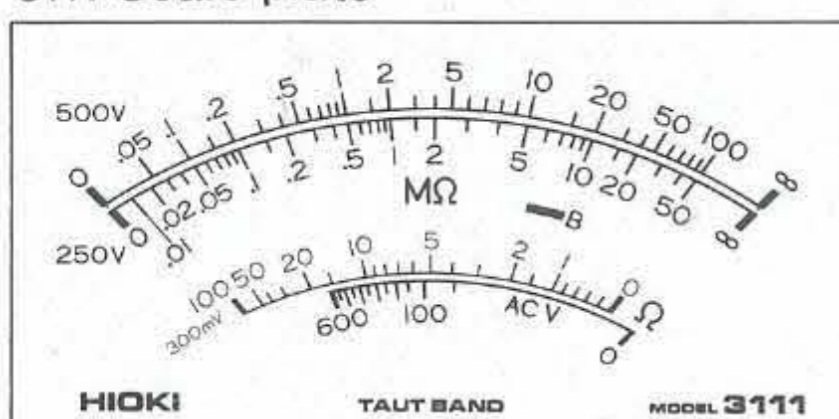
## General Specifications

Housing: High impact ABS resin  
 Powersource: Eight size AA  
 Battery check: Indicated on meter scale  
 Insulation resistance: Greater than 50MΩ/500V (between electrical circuit and case)  
 Dielectric strength: AC 2000V/1 min (between electrical circuit and case)  
 Dimensions: 170H×109W×53D mm  
 Weight: Approx. 650g (with battery)  
 Accessories: 9044 Test leads, 1 set  
 Spare fuse, 1 ea. 1A/250V...3111  
 1A/250V (non-arcing)...3111-02

## Optional Accessories

9089 Carrying Case (for 3111)  
 9089-02 Carrying Case (for 3111-02)  
 3111-10 (with carrying case)  
 3111+9089  
 3111-12 (with carrying case)  
 3111-02+9089-02

3111 Scale plate



3111-02 Scale plate



## Standard Packing (Double carton box)

	Sets	N.W.	G.W.	M <sup>3</sup>
3111, 3111-02	20	20kg	23kg	0.13m <sup>3</sup>
3111-10, 3111-12	20	24kg	27kg	0.13m <sup>3</sup>

## Specifications

Insulation Resistance Range	3111		3111-02		
	Rated voltage-rated resistance	250V-50MΩ	500V-100MΩ	500V-200MΩ	1000V-2000MΩ
Center scale	1MΩ	2MΩ	5MΩ	50MΩ	
Accuracy	Primary effective measuring range	0.01M~20MΩ ±5% of indicated value	0.1M~50MΩ ±5% of indicated value	0.1M~50MΩ ±5% of indicated value	2M~500MΩ ±5% of indicated value
	Secondary effective measuring range	Over 20M~50MΩ ±10% of indicated value	Over 50M~100MΩ ±10% of indicated value	Over 50M~200MΩ ±10% of indicated value	Over 500M~2000MΩ ±10% of indicated value
	Another scale (include 0, ∞)	±0.7% of scale length		±0.7% of scale length	
Measuring terminal voltage	+10% of rated voltage at open circuit (∞)		+10% of rated voltage at open circuit (∞)		
	Over 90% of rated voltage at 1MΩ		Over 90% of rated voltage at 1MΩ	Over 90% of rated voltage at 50MΩ	
Short circuit terminal current	Approx. 3.1mA		Approx. 3.1mA	Approx. 230μA	
Battery drain	Approx. 30mA at 1MΩ	Approx. 50mA at 1MΩ	Approx. 65mA at 1MΩ	Approx. 40mA at 50MΩ	

## Resistance Range

Measurement range	0-100Ω (mid-scale: 5Ω)
Accuracy	±3% of scale length (±1.29mm)
Open circuit terminal voltage	DC 300mV
Short circuit terminal current	Approx. 50mA
Battery drain	Approx. 55mA at 0 to 100Ω
Fuse protection	1A/250V φ5.2×20mm

## AC Voltage Range

Measurement range	0-600V
Accuracy	±7% of f.s.

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