

# 3213A Series of Analog Insulation Testers

# 3213A SERIES



- Analog models with single rating
- AC voltage measurement and check live lines such as motive power lines
- One-touch operation Press-and-lock switch for continuous measurement
- A wide choice of accessories to meet various testing requirements
- Vibration- and shock-resistant hand-held compact testers

**Test Equipment Depot**  
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## Testing Performance Specifications

| Model  | Rating               | Effective Measuring Range | Central Scale Value | AC Voltage Measuring Range | Lower Limit of measured $\Omega$ | Rated Current |
|--------|----------------------|---------------------------|---------------------|----------------------------|----------------------------------|---------------|
| 321341 | 100V/20M $\Omega$    | 0.02–20M $\Omega$         | 0.5M $\Omega$       | 0–150V                     | 0.1M $\Omega$                    | 1mA           |
| 321342 | 250V/50M $\Omega$    | 0.05–50M $\Omega$         | 1M $\Omega$         | 0–250V                     | 0.25M $\Omega$                   | 1mA           |
| 321343 | 500V/100M $\Omega$   | 0.1–100M $\Omega$         | 2M $\Omega$         | 0–300V                     | 0.5M $\Omega$                    | 1mA           |
| 321344 | 500V/1000M $\Omega$  | 1–1000M $\Omega$          | 20M $\Omega$        | 0–300V                     | 0.5M $\Omega$                    | 1mA**         |
| 321345 | 1000V/2000M $\Omega$ | 2–2000M $\Omega$          | 50M $\Omega$        | 0–300V                     | 1M $\Omega$                      | 1mA**         |

\* The minimum value at which the rated voltage can be maintained; \*\* 0.55 mA in the case of the first effective measuring range

### Standard test conditions:

Ambient temperature/humidity ranges: 23  $\pm$  5 / 45–75% RH  
Position of use: Horizontal (5° max. of angle of inclination)  
Effect of geomagnetism: None  
Battery voltage: Within effective voltage range  
(The pointer must stay within the range indicated by the BAT symbol when the battery check is performed.)

### Tolerances under the above-mentioned conditions:

Resistance measurement:  
First effective measuring range =  $\pm$ 5% of reading  
Second effective measuring range =  $\pm$ 10% of reading  
Infinite and zero scale values: 0.7% max. of scale length  
AC voltage:  $\pm$ 10% of maximum scale value  
No-load voltage: 130% max. of rated voltage  
Rated measuring current: 1 mA (0 to 20%) when in first effective measuring range  
Short-circuit current: 12 mA max.

## General Specifications

Scale length: Approx. 88 mm

Dimensions (main unit): Approx. 110 (W)  $\times$  180 (H)  $\times$  60 (D) (mm)

Weight: Approx. 700 g including batteries, or approx. 1.2 kg including hard case, handle, test leads and batteries

Batteries: Eight AA (R6P) batteries

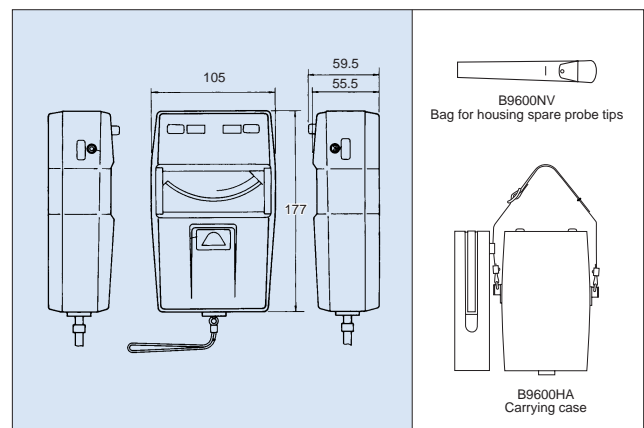
Accessories: See the list of accessories on the backside of this bulletin for information on accessories such as probes with a switch.

## Standard Accessories

| Product       | Part Number | Qty                                |
|---------------|-------------|------------------------------------|
| Test lead     | B9205VA     | 1 (consist of earth/line terminal) |
| Hard case     | B9600HA     | 1 (w/leads-housing case)           |
| Handle        | B9303XE     | 1                                  |
| User's manual | –           | 1                                  |
| Batteries     | –           | 8                                  |

## External Dimensions

Unit: mm



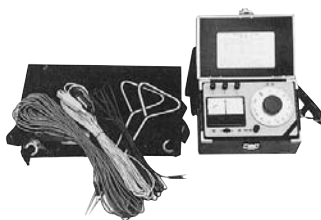
## Related Products

### Generator-driven Insulation Tester



**Model 2404: (including case)**  
Dimensions: Approx. 112  $\times$  184  $\times$  105 (mm)  
Weight: Approx. 1.3 kg

### Earth Tester



**Model 3235: (including case)**  
Dimensions: Approx. 210  $\times$  140  $\times$  135 (mm)  
Weight: Approx. 2.5 kg, including case

### Automatic Power Distribution Tester



**Model 3207: (with case)**  
Dimensions: Approx. 210  $\times$  140  $\times$  142 (mm)  
Weight: Approx. 2.3 kg (main unit only)