

# PROVA 5637 Clamp-on Ground Resistance Tester

CE

CAT III  
300V

CAT II  
600V



## Features:

- Non-contact ground resistance measurement: **0.025Ω ~ 1500Ω**
- No auxiliary electrode needed
- Leakage current measurement: **0.2mA ~ 35A**, True RMS
- Jaw diameter: **35mm**
- Programmable High and Low alarm
- Programmable data logging
- Data logging capacity: **116 records**

- Data logging interval: **1 to 255 sec.**
- **Auto-power-off** function
- **Grounding application:** Telecommunication, Electrical power plant, Factory and facility, Cable TV system, Cellular phone system, Gas station & tank

### Electrical Specifications: (23+/- 5°C)

#### Ground Resistance (Auto range):

| Range                  | Resolution     | Accuracy of Reading <sup>1</sup> |
|------------------------|----------------|----------------------------------|
| 0.025 - 0.250 $\Omega$ | 0.002 $\Omega$ | $\pm 1.5\% \pm 0.05 \Omega$      |
| 0.251 - 1.000 $\Omega$ | 0.02 $\Omega$  | $\pm 1.5\% \pm 0.05 \Omega$      |
| 1.001 - 10.00 $\Omega$ | 0.02 $\Omega$  | $\pm 1.5\% \pm 0.1 \Omega$       |
| 10.01 - 50.00 $\Omega$ | 0.04 $\Omega$  | $\pm 2.0\% \pm 0.3 \Omega$       |
| 50.01 - 100.0 $\Omega$ | 0.04 $\Omega$  | $\pm 2.0\% \pm 0.5 \Omega$       |
| 100.1 - 200.0 $\Omega$ | 0.4 $\Omega$   | $\pm 3.0\% \pm 1.0 \Omega$       |
| 200.1 - 400.0 $\Omega$ | 2 $\Omega$     | $\pm 5.0\% \pm 5 \Omega$         |
| 400.1 - 600.0 $\Omega$ | 5 $\Omega$     | $\pm 10\% \pm 10 \Omega$         |
| 600.1 - 1500 $\Omega$  | 20 $\Omega$    | $\pm 20\%$                       |

<sup>1</sup> Loop resistance noninductive, external field < 200 A/m, external electrical field < 1 V/m, conductor centered.

<sup>2</sup> Resistance Measurement Frequency: 3.333KHz

#### High and Low Alarm

|            | Range             | Resolution |
|------------|-------------------|------------|
| High Alarm | 0 - 1510 $\Omega$ | 1 $\Omega$ |
| Lo Alarm   | 0 - 1510 $\Omega$ | 1 $\Omega$ |

#### Ground/ Leakage Current (Auto range, 50/60 Hz, True RMS, Crest Factor < 3.5)

| Range            | Resolution | Accuracy of Reading             |
|------------------|------------|---------------------------------|
| 0.200 - 1.000 mA | 0.001 mA   | $\pm 2.0\% \pm 0.05 \text{ mA}$ |
| 1.00 - 10.00 mA  | 0.01 mA    | $\pm 2.0\% \pm 0.03 \text{ mA}$ |
| 10.0 - 100.0 mA  | 0.1 mA     | $\pm 2.0\% \pm 0.3 \text{ mA}$  |
| 100 - 1000 mA    | 1 mA       | $\pm 2.0\% \pm 3 \text{ mA}$    |

#### Ground Current (Auto range, 50/60 Hz, True RMS, Crest Factor < 3.5)

| Range           | Resolution | Accuracy of Reading            |
|-----------------|------------|--------------------------------|
| 0.200 - 4.000 A | 0.001 A    | $\pm 2.0\% \pm 0.03 \text{ A}$ |
| 4.00 - 35.00 A  | 0.01 A     | $\pm 3.0\% \pm 0.03 \text{ A}$ |

**Accuracy of Resistance Calibration Plate:**  $\pm 1\%$

**Data Logging Capacity :** 116 records

**Data Logging Interval:** 1 to 255 seconds

## General Specifications:

|                          |                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| Conductor Size:          | 35 mm (1.38") approx.                                                                                  |
| Jaw Opening:             | 38 mm (1.49") approx.                                                                                  |
| Battery Type:            | 9V IEC 6 LR61 (Alkaline)                                                                               |
| Battery Life:            | 3000 measurements                                                                                      |
| Display:                 | 4 digits 9999 counts LCD                                                                               |
| Range Selection:         | Auto                                                                                                   |
| Auto-Power-Off:          | About 4~6 minutes                                                                                      |
| Overload Protection:     | 100A (continuous); 200A (5 sec.)                                                                       |
| Overload Indication:     | OL                                                                                                     |
| Power Consumption:       | 40mA                                                                                                   |
| Low Battery Indication:  |                       |
| Sampling Time:           | 20 times / second                                                                                      |
| LCD update:              | 2 times / second                                                                                       |
| Temperature Coefficient: | 0.1% x (Specified Spec.) / °C (<18°C or >28°C)                                                         |
| Operating Temperature:   | 0°C to 50°C (14°F to 122 °F)                                                                           |
| Operating Humidity:      | less than 85% relative                                                                                 |
| Altitude:                | up to 2000M                                                                                            |
| Storage Temperature:     | -20°C to 60°C (-4°F to 122 °F)                                                                         |
| Storage Humidity:        | less than 75% relative                                                                                 |
| Dimension:               | 276mm (L) x 100mm (W) x 47mm (H)<br>10.8" (L) x 3.9" (W) x 1.9" (H)                                    |
| Weight:                  | 750g / 1.65 lbs                                                                                        |
| Accessories:             | Resistance calibration plate x 1<br>9V battery (installed) x 1<br>User manual x 1<br>Carrying case x 1 |

\* Specifications are subject to change without notice.

# PROVA

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