# PROBADOR DE TRANSFORMADORES TTR PROVA 1660

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# PROVA® 1660

# Transformer Turns Ratio Meter

## Features

- Measurements of 1Φ and 3Φ Transformer/VT/CT Turns Ratio
- VT/PT ratio 0.8~10000, CT ratio 0.8~2000
- Graphical and Literal Illustration of Measurements and Connections with Large Back-lighted Dot Matrix 240 x 128 LCD
- Ten Test Frequencies (50~400Hz)
- Display Turns Ratio, Deviation, Secondary Output, Excitation Voltage and Current, Phase Angle and Nameplate Transformer/VT/CT Values in one page for easy quality interpretation
- Check for Live Test Points, Short Circuit, Open Circuit, and Reverse Polarity before each Measurement
- Store 4096 Files of Transformer Nameplate Values (VT/PT/CT, 1Φ/3Φ, Test Frequency, Primary and Secondary Voltages or Ratio, RCF) and Measuring Data
- 9 types of 3Φ Windings Connections pre-installed
- Wireless Blue Tooth Communication with PC
- Select Filter to Remove Field Noise (Slow, Normal, Fast)
- Records with Date and Time Stamp
- Powerful Lithium Battery (3400mAH) with built-in Charging Circuit
- User Programmable RCF (Reference Correction Factor, 0.99~1.01) to Correct Accuracy within 1% Error
- PC Application Software included
- Friendly File System for Easy On-site Data Retrieval and Nameplate Values Management

CE

50V CAT IV

# PROVA 1660 Transformer Turns Ratio Meter Specifications

Reference Conditions：23ºC ± 5ºC (30 to 50% RH). Add 25ppm/ºC for -10° to 18ºC and 28° to 50ºC to all accuracy specifications. No external electrical or magnetic fields. Output current ≦150 mA for VT/PT and ≦ 50mA for CT. Calibration cycle is 1 year.

## Electrical

| | | |
|---|---|---|
| **Ratio Range (VT/PT)** | Autoranging : 0.8000 to 10000 : 1 | |
| **Accuracy (70Hz)** | **Ratio Range** | **Accuracy (% of Reading)** |
| | 0.8000 to 999.99 | ± 0.1% |
| | 1000.0 to 4999.9 | ± 0.2% |
| | 5000.0 to 10000 | ± 0.25% |
| **Ratio Range (CT)** | Autoranging : 0.8000 to 2000.0 | |
| **Accuracy (70Hz)** | **Ratio Range** | **Accuracy (% of Reading)** |
| | 0.8000 to 2000.0 | ± 0.5% |
| **Excitation Signal** | VT/PT Mode : 34Vrms max<br>CT Mode : Auto Level 0 to1A, 0.1 to 20Vrms | |
| **Excitation Current Display** | Range : 0 to 1000mA<br>Accuracy : ± (2% of Reading +2mA) | |
| **Excitation Frequency (Hz)** | 50, 55, 60, 70, 100, 120, 200, 240, 300, 400 | |
| **Display** | 5" Lage dot matrix LCD display (240x128) with backlight | |
| **Power Source** | Rechargeable Lithium Battery, 3400mAh | |
| **Battery Life** | Over 10 hrs of continuous operation. Battery life (%) indication | |
| **Battery Charger** | Universal input (90 to 264Vrms input) | |
| **Charging Time** | <4 hrs | |
| **Data Storage** | 4096 Files Each (VTM, CTM, VTR, CTR, BMP) | |
| **Date / Time** | Battery-backed, Real-time Calendar clock | |
| **Measurement Method** | ANSI / IEEE C57.12.90 and IEC 600076.1 | |

## Accessory

1. Test leads (set of 2)
2. Alligator clips (4pcs.)
3. Rechargeable lithium battery
4. User manual
5. AC adaptor
6. Power cord
7. Software CD & Manual
8. Carrying bag