

PROVA[®]



PROVA 1660

Transformer Turns Ratio Meter

CE CAT IV 50V



Features:

- Measurements of 1 Φ and 3 Φ 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. Display Test Data with Nameplate Transformer Values for Easy Interpretation.
- **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 transformer quality interpretation.

- Check for **Live Test Points, Short Circuit, Open Circuit, and Reverse Polarity** before Each Measurement. Message is displayed to Warn Users (But, checking is not performed once measurement starts).
- **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 for easy user selection.
- **Wireless Blue Tooth** Communication with PC.
- **Select Filter** to Remove Field Noise (Slow, Normal, Fast).
- Disable or Enable **Auto-Power-Off** with Programmable Time.
- Built-in calendar clock.
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.
- Friendly **File System** for Easy On-site Data Retrieval and Nameplate Values Management.
- PC Application **Software** included.

Electrical Specifications:

Reference Conditions : 23°C ± 5°C (30 to 50% RH) range. Add 25ppm/°C for 0° to 18°C and 28° to 50°C 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.

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|-------------------------------|---|-------------------------|
| Ratio Range (VT/PT) | Autoranging : 0.8000 to 10000 : 1 | |
| Accuracy (70Hz) | Ratio Range | Accuracy (% of Reading) |
| | 0.8000 ~ 999.99 | ± 0.1% |
| | 1000.0 ~ 4999.9 | ± 0.2% |
| | 5000.0 ~ 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 CT Mode : Auto Level 0 to1A, 0.1 to 20Vrms | |
| Excitation Current Display | Range : 0 to 1000mA Accuracy : ± (2% of Reading +2mA) | |
| Excitation Frequency (Hz) | 50, 55, 60, 70, 100, 120, 200, 240, 300, 400 | |
| Display | 5" Large dot matrix LCD display (240*128) with backlight | |

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|-----------------------|--|
| 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 |
| Operation Environment | 5°C ~ 50°C, 85% RH |
| Storage Environment | -20°C ~ 60°C, 75% RH |

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



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