

## Transformer Turns Ratio Meter

### Features

- Measurements of 1 $\Phi$  and 3 $\Phi$  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, 1 $\Phi$ /3 $\Phi$ , Test Frequency, Primary and Secondary Voltages or Ratio, RCF) and Measuring Data
- 9 types of 3 $\Phi$  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



## PROVA 1660 Transformer Turns Ratio Meter Specifications

Reference Conditions : 23°C ± 5°C (30 to 50% RH). Add 25ppm/°C for -10° 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.

### Electrical

Ratio Range (VT/PT)	Autoranging : 0.8000 to 10000 : 1	
Accuracy (70Hz)	<b>Ratio Range</b>	<b>Accuracy (% of Reading)</b>
	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)	<b>Ratio Range</b>	<b>Accuracy (% of Reading)</b>
	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 (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 60076.1	

### 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



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