



ENGLISH

Datasheet

Stock No. 122-5408

RS-1660

Transformer Turns Ratio Meter



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, 1 Φ /3 Φ , Test Frequency, Primary and Secondary Voltages or Ratio, RCF) and Measuring Data.
- **9 types of 3 Φ 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 \pm 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 \leq 150 mA for VT/PT and \leq 50mA for CT. Calibration cycle is 1 year.

Ratio Range (VT/PT)	Autoranging : 0.8000 to 10000 : 1	
Accuracy (70Hz)	Ratio Range	Accuracy (% of Reading)
	0.8000 ~ 999.99	\pm 0.1%
	1000.0 ~ 4999.9	\pm 0.2%
	5000.0 ~ 10000	\pm 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	
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

