

TEKON600 Turns Ratio Meter 1 phase



TEKON600 is a test set that measures the turns ratio of windings in single phase distribution with the application of 7" wide touchscreen aimed to maximize user convenience. In particular, it can be used anywhere as it is powered by chargeable battery. Selectable test voltages include 4Vac, 10Vac, 40Vac and 100Vac (optional), enabling you to measure a variety of transformers.

It uses the IEEE C57.12.90 measurement method and accurately measures the voltage at the transformer's winding at no load. The TEKON600 can be used to test power regulator, power transformer, CT (Current Transformer) and PT (Potential Transformers).

This model is divided into two: TEKON600. You are able to print out measurement data via printer, save them to the meter's internal memory, or download to your PC.

1. Features

- Portable with robust and lightweight enclosure
- Simultaneously measures turns ratio, excitation current, polarity and phase angle
- Verifies limiter settings: function to judge whether acceptable or non-acceptable
- Application of dockable wireless printer (bluetooth)
- Micro SD 8GB applied as basic memory.
- Measurements automatically saved to designated storage space in real time
- Automatic measurement and display of measurement result
- Communication: USB, Bluetooth
- Output of measurement data in reports
- Chargeable battery (Li-ion) operated

2. General specifications

| | |
|-------------------------|--|
| LCD display | 1024×600 pixels, 7.0-in color TFT screen (touch panel) |
| Power(battery) | 7.2V/5.2A Li-ion, 12V/2.5A Adaptor |
| Communication | USB, Bluetooth |
| Print | External printer |
| Data Storage | MicroSD(8GB) |
| Operating temp/humidity | 0°C±45°C, RH 85% max |
| Storage temp/humidity | -20°C±60°C, RH 85% max |
| Dimension | 270(L)×246(W)×124(H) mm |
| Weight | 3.0kg |

3. Electrical specifications

- Measurement of turns ratio

| Type | Single-phase |
|-----------------------|---|
| Range for turns ratio | 5Vac 1~1,999(0.1%) 2,000~3,999(0.25%) 4,000~15,000(2%) |
| | 40Vac 1~1,999(0.1%) 2,000~3,999(0.25%) 4,000~15,000(1%) |
| Excitation voltage | 1V, 5V, 10V, 40V |
| Excitation current | 0~2A |
| Phase angle | Range: 0~360degree Accuracy: ±0.2degree+2dgts |
| Polarity | Displayed on screen |

- **Measurement of temperature & humidity (operating environment)**

- Built-in temp/humidity sensor

| Measurement | Measurable range | Accuracy |
|-------------|------------------|-----------------|
| Temp | -40 ~ 125°C | ±0.3°C(10~60°C) |
| Humidity | 0 ~ 100%RH | ±2%(20~80%RH) |

- **Accessories**

| | |
|----------|---|
| Standard | Cable for measurement, 12V/2.5A power adaptor, 7.2V/5.2Ah Li-ion battery, USB cable, Micro SD card (8GB), portable bag, PC S/W, user's manual |
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