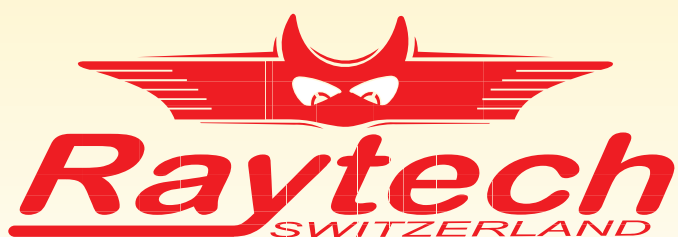


Turns Ratio Meter 3 Phase

Fully Automatic

Automatic Vector Group Detection

Rugged & Reliable



TR-Mark

CT-Series

M-Series

TR-Series

WR-Series

Turns Ratio Meter 3 Phase

TR-Mark III

Features

- Automatic measurements of Voltage, Turns Ratio, Current, and Phase displacement
- Easy one time hook up to the transformer
- Automatic test voltage range
- Displays deviation from a nominal ratio
- Graphical tap changer display
- Tap changer interface (In- and Output)
- Load on test object <0.05 VA
- Measures Power transformers PT's and CT's
- Displays % error vs. name plate value
- Automatic phase vector detection
- Enhanced heavy-duty protection circuitry
- Extremely rugged (can withstand a drop test of 1 meter)
- Data exchange with USB-Key
- Internal Printer



Measurement Parameters

| Range | Accuracy at 100 V or 40 V | Accuracy at 10 V | Resolution |
|--------------------|--|---------------------|-------------------|
| 0.8 ... 2000 | ±0.06 % Rdg ±1 LSD | ±0.15 % Rdg ±2 LSD | 5 Digits |
| 2001 ... 4000 | ±0.1 % Rdg ±1 LSD | ±0.22 % Rdg ±2 LSD | 5 Digits |
| 4001 ... 13000 | ±0.3 % Rdg ±1 LSD | ±0.5 % Rdg ±2 LSD | 5 Digits |
| 13000 ... 16000 | ±0.4 % Rdg ±1 LSD | not specified | 5 Digits |
| Current | Accuracy | | Resolution |
| 0 ... 1 A | ±0.001 A | | 0.1 mA |
| Phase Angle | Accuracy | | Resolution |
| ±90 Degree | ±0.05 Degree | | 0.01 Degree |
| Turns ratio range | 0.8 to 16000 | | |
| Temperature | Operating -10 °C to 60 °C, Storage -20 °C to 70 °C | | |

Specifications

| | |
|----------------|--|
| Model | TR Mark III |
| Size | L: 470 mm (18.5") W: 371 mm (14.6") H: 190 mm (7.5") |
| Weight | 9.5 kg (21 lbs.) |
| Input Power | 100 to 250 Vac 50/60 Hz auto ranging. Fuse: 2 A |
| Test Voltage | User Selectable: 100, 40, 10, and 1 Vac. 1 A |
| Panel Display | Color LCD with back lighting and touch screen |
| Front Panel | Sealed, Anodized |
| Interface | 2 USB 1.1 (1 host/1 device) and 9 Pin RS232 serial |
| Memory Storage | Internally stores more than 10000 test results |

Accessories

Complete cable set (consisting of a 5 m cable with an extension cable of 10m), cable carrying bag, instruction manual, software for data download

Options

| | |
|---------------|---|
| TRO 203 | External test switch for Tap changer testing |
| T-REX | 3-phase Supply to energize all 3 phases at once |
| TR-Mark III R | 19", 4U Rackmount version |