TR-Mark III 250V: Fully Automatic, Three Phase Transformer Turns Ratio Meter

Features

Extended test voltage measurement range of up to 250V

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

Tap changer interface with graphic results

Load on test object < 0.05 VA

Measures power transformers, PTs and CTs

Automatic vector group detection

Enhanced heavy-duty protection circuitry

Emergency stop button immediately turns off output

Internal printer

Data storage of over 10,000 measurements

Simple to operate color LCD touch screen with back light

Two USB interfaces

5-Year standard warranty



TR-Mark III 250V

Accuracy ___

Range	Accuracy at 100V or 40V	Accuracy at 10V	Resolution
0.8 2,000	±0.06% Rdg ±1 LSD	\pm 0.15% Rdg \pm 1 LSD	5 Digits
2,001 4,000	±0.1% Rdg ±1 LSD	$\pm 0.3\%$ Rdg ± 1 LSD	5 Digits
4,001 13,000	±0.3% Rdg ±1 LSD	not specified	5 Digits
13,001 16,000	±0.4% Rdg ±1 LSD		5 Digits
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Range	Accuracy at 250V	Resolution
0.8 5,000	±0.06% Rdg ±1 LSD	5 Digits
5,001 10,000	$\pm 0.1\%$ Rdg ± 1 LSD	5 Digits
10,001 32,500	±0.3% Rdg ±1 LSD	5 Digits
32,501 45,000	±0.4% Rdg ±1 LSD	5 Digits

Current	Accuracy	Resolution
0 1A	±0.001A	0.1mA

Phase Angle	Accuracy	Resolution
±90 Degree	±0.05 Degree	0.01 Degree

Size: L: 470 mm (18.5") W: 371 mm (14.6") H: 190 mm (7.5")

Weight: 10.2 kg (22.4 lbs.)

Input Power: 100 to 250 VAC 50/60 Hz auto ranging. Fuse: 2A

Turns Ratio Range: 0.8 to 45,000

Test Voltage: User Selectable: 250, 100, 40, 10, and 1VAC. 1A

Interface: 2 USB 1.1 (1 host/1 device) and 9 Pin RS-232 serial Memory Storage: Internally stores more than 10,000 test results

Front Panel: Sealed, anodized

Panel Display: 5.7" Color LCD with back light and touch screen

Temperature: **Operating:** -10°C to 60°C (14°F to 140°F); **Storage:** -20°C to 70°C (-4°F to 158°F) See Instruction Manual for more Parameters. Specifications subject to improvement at any time.

Standard Accessories Included ___

H and X Lead Set -5m (16 ft.) Red Extension Lead Set (2) – 10m (32 ft.) each Power Cord – 6.09m (20 ft.)

External USB drive and touch screen Stylus A-B USB Cable — 3.05m (10 ft.) **External Zippered Pouch**

Cable Bag with Shoulder Strap

Paper Refill for Panel-mount Printer — 5 rolls Spare Fuse Set Instruction Manual Certificate of Accuracy

Raytech

Ground Lead – 5m (16 ft.)

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Optional Items Available

1003N-31001: External Trigger Switch for Tap Changer Testing — 10m (32 ft.)

1002A-05002: Red Extension Lead — 10m (32 ft.) T-Rex: 3 Phase Test Voltage Option for TR-Mark III 250V

1004N-15002: Annual Warranty Extension

Rackmount Version Available

For your convenience, Raytech offers a 4U rackmount version, the TR-Mark III R 250V.

All of the features and accuracy of the portable field unit are incorporated into the rackmount, except the internal printer. There are a total of four (4) USB interfaces to provide additional access to the instrument.



Specs

Size: **L:** 490 mm (19.3") **W:** 436 mm (17.2") **H:** 177 mm (7")

Rack Unit: 4U

Weight: 8.1 kg (17.9 lbs.)

Standard Accessories Included

The same accessories are included as the portable field version, except printer paper refill will not be included because the rackmount does not contain a printer.

Optional Items Available

The same optional items that are available to the field unit are also available to the rackmount unit, except a rackmount T-Rex goes with the rackmount TR-Mark III R 250V and has the part number T-Rex R.



Rear View

Raytech is a world leader in the design and manufacture of precision electronic measuring instruments and systems.

The unique design approach of the engineering team at Raytech has resulted in the development of highly regarded measuring instruments, which have set new standards in the electrical testing industry.

Our exceptional reputation for support and service is unmatched.

Raytech products are designed for many years of trouble-free use, which is why we can offer a standard 5-year warranty – guaranteeing the highest quality instrumentation available.



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