TR-1 / TR-1P: Fully Automatic, Single Phase Transformer Turns Ratio Meter

Features

Fully automatic, continuous operation system

System is housed in a rugged, lightweight, waterproof case

Rechargeable, battery-operated instrument

Rechargeable with line voltage, or an optional DC Car adapter

Reverse Polarity Test

Continuity Test

Test current up to 1A for CT testing

Internal storage of the last 50 test results

RS-232 interface with optional adapter

Pass / Fail Function

Save up to 16 Transformers for comparison

Performs over 1,000 measurements without recharging Install the TinyFlashLoader software, and you will be able to

update the firmware using the optional RS-232 Interface

Cable Adapter (TinyFlashLoader software is free to download

from our website — www.RaytechUSA.com)

TR-1P Model Unit houses a built-in printer

5-Year standard warranty



Accuracy _

Range	Accuracy in PT Mode (40V)	Accuracy in CT Mode (15V)	Resolution
0.8 100	$\pm 0.08\%$ Rdg ± 1 LSD	\pm 0.08% Rdg \pm 1 LSD	5 Digits
101 4,000	$\pm 0.08\%$ Rdg ± 1 LSD		5 Digits

Current	Accuracy	Resolution
PT-Mode: 0 0.1A	±1mA	0.1mA
CT-Mode: 0 1A	±1mA	0.1mA

Specs

Size: L: 270 mm (10.62") W: 245 mm (9.68") H: 125 mm (4.87")

Weight: 3.2 kg (7.1 lbs.)

Input Power: 85 to 264 VAC, 47 ... 63 Hz, 12 VDC (optional)

Battery: Lithium Ion 16.4V / 1.6Ah Turns Ratio Range: 0.8 to 4,000

Output Voltage PT Mode: 40 VAC, 10 VAC, 5 VAC, 1 VAC

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.)

Power Cord – 2.4m (8 ft.)

Instruction Manual

Faper Refill for Panel-mount Printer – 5 rolls (with the TR-1P)

Ground Lead – 5m (16 ft.)

Certificate of Accuracy

Cable Bag with Shoulder Strap

Optional Items Available

1011N-05001: Red Extension Lead – 5m (16 ft.)

1002A-05023: Red Extension Lead Set (2) – 10m (32 ft.) each

1011N-23001: RS-232 Interface Cable Adapter

1011N-24002: 12VDC Automotive Adapter 1011N-15001: Annual Warranty Extension

Output Voltage CT Mode: 1 . . . 5 VAC auto ranging

Memory Storage: Internally stores 50 test results

Front Panel: Sealed, anodized with a multi-actuation rotary knob Interface: RS-232 serial (with optional interface adapter)

Panel Display: LCD Graphic with back light

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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