

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



TR-1

TR-1P

Accuracy

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

Current	Accuracy	Resolution
PT-Mode: 0 ... 0.1A	$\pm 1\text{mA}$	0.1mA
CT-Mode: 0 ... 1A	$\pm 1\text{mA}$	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.

Output Voltage CT Mode: 1 ... 5 VAC auto ranging
 Panel Display: LCD Graphic with back light
 Front Panel: Sealed, anodized with a multi-actuation rotary knob
 Interface: RS-232 serial (with optional interface adapter)
 Memory Storage: Internally stores 50 test results

Standard Accessories Included

H and X Lead Set – 5m (16 ft.)	Power Cord – 2.4m (8 ft.)	Instruction Manual
Paper 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.)	1011N-24002: 12VDC Automotive Adapter
1002A-05023: Red Extension Lead Set (2) – 10m (32 ft.) each	1011N-15001: Annual Warranty Extension
1011N-23001: RS-232 Interface Cable Adapter	

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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