



Fully Automatic

Automatic Vector Group Detection

Rugged & Reliable

TR Spy Mark II

Three Phase Transformer Ratiometer

Features:

Automatic Measurements of Voltage / Turns Ratio, Current, and Phase displacement
Single push button operation
Single 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 Vector Group detection
Enhanced Heavy-duty protection circuitry
Extremely rugged (Can withstand a drop test of 1 meter)

Measurement Parameters:

Range	Accuracy at 100V or 40V	Accuracy at 10V	Resolution
0.8 .. 2000	±0.08% 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

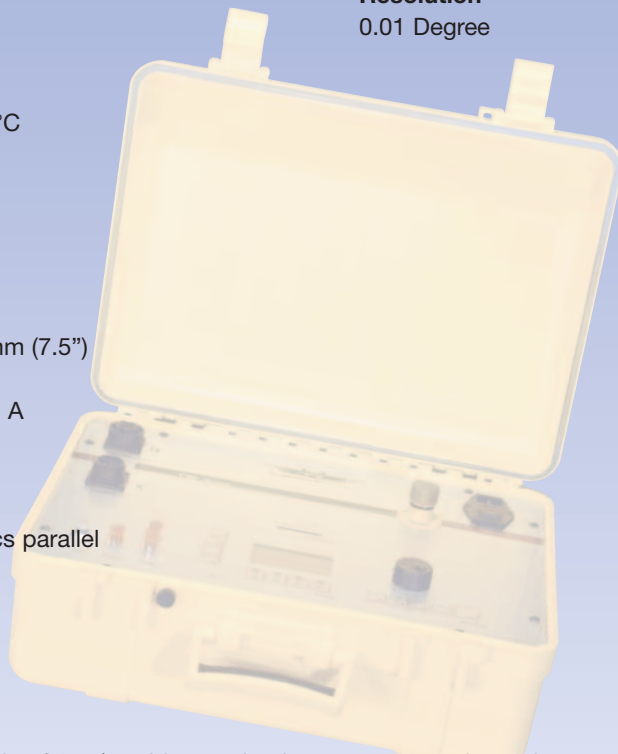
Current	Accuracy	Resolution
0 .. 1 A	±0.001 A	0.1 mA

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

Turns ratio range: 0.8 to 13000
Temperature: Operating -10°C to 60°C Storage -40°C to 70°C

Specifications:

Model: TR Spy Mark II
Size: L: 470 mm (18.5") W: 371 mm (14.6") H: 190 mm (7.5")
Weight: 8.2 kg (18 lb.)
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: LCD Graphic with back lighting
Front Panel: Sealed, Anodized, Piezo-electric actuation
Interface: Standard 9 Pin RS232 serial / 25 Pin Centronics parallel
Memory Storage: Internally stores more than 4,000 test results



Accessories:

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

Options:

TRO 201 Cable Extension of 20m length
TRO 203 External test switch for Tap changer testing
Spy base Windows based control & operation software
T-REX 3-phase Supply to energize all 3 phases at once

Specifications are subject to change without notice.