



Three Phase Turns Ratiometer

SPECIFICATIONS: TR-MARK III

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

WEIGHT: 9.5 kg (21 lbs.)

INPUT LINE POWER: 100 to 250 VAC 47-63 Hz, auto ranging, Fuse: 2A
TEST VOLTAGE: User selectable 100, 40, 10, and 1Vac, 1A
PANEL DISPLAY: Color LCD with back lighting and touch screen

FRONT PANEL: Sealed anodized

INTERFACE: 9 pin RS232 serial / 2 USB 1.1 (1 host, 1 device)

MEMORY STORAGE: Stores over 10,000 complete test results

 RATIO RANGE:
 0.8...16,000

 OPERATING TEMPERATURE
 -10° C to 60° C

 STORAGE TEMPERATURE
 -20° C to 70° C

Range	Accuracy at 100 V or 40 V	Accuracy 10 V	Resolution
0.8 2000	±0.06% Rdg ±1 LSD	±0.15 % Rdg ±2 LSD	5 Digits
2001 4000	$\pm 0.1\%$ Rdg ± 1 LSD	±0.22% Rdg ±2 LSD	5 Digits
4001 13000	$\pm 0.3\%$ Rdg ± 1 LSD	±0.5% Rdg ±2 LSD	5 Digits
13000 16000	$\pm 0.4\%$ Rdg ± 1 LSD	not specified	5 Digits

Current	Accuracy	Resolution
0 1A	±0.001 A	0.1mA

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

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
- Simple touch screen operation
- Graphical tap changer display
- Tap changer interface
- Load on test object < 0.05 VA
- Measures power transformers PTs and CTs
- Displays % error vs. name plate value
- Automatic phase vector detection
- Enhanced heavy-duty protection circuitry
- Emergency stop push button immediately turns off output
- Internal printer
- Data storage of over 10,000 measurements
- Data exchange with USB-key
- Mounted in rugged case for field-testing
- 5 Year standard warranty*





CABLE SET / ACCESSORIES:

- H and X lead-set 5m each
- H and X extensions 10m each
- Safety ground, power cord
- External USB-key, USB and RS-232 Cable
- Instruction manual, printer paper (5 rolls)
- Cable bag

OPTIONAL ITEMS:

External trigger for tap changer testing
Three phase supply for phase shifting and Zig-Zag transformers
TR-Mark IIIR — 19" 4U Rackmount version available

Specifications are subject to improvement at any time.