

TURA-03 SERIES

3-Phase Transformer Turns Ratio Tester with Built-in Printer



Up to
50,000
Ratio

1 V to
250 V
Test Voltage

Large
Colour Touch
Display

High
Accuracy
0.08%

Built-in
Printer



Measurement
0.8 to
50,000 Ratio

Test Voltage
1V to 250V

High Accuracy
0.08%

TURA-03 SERIES

3Φ Transformer Turns Ratio Tester with Built-in Printer

TURA-03 Series is designed using advanced engineering technology to measure the turns ratio of single-phase and three-phase transformers.

TURA-03 Series has fast, easy and accurate TTR measurement features for current, voltage and power transformers using its user-friendly software.

By using ANSI/IEEE C57.12.90 measurement method TURA-03 Series can produce precise results.

TURA-03 Series is one of the most accurate devices with its wide range (0.8 to 50,000) ratio measurement capability and high precision (0.08 %).

Besides the ratio measurement, TURA-03 Series can also measure excitation current, phase angle, polarity, and ratio error.

Even though TURA-03 Series has three-phase cable configuration, users can also make single-phase transformer tests. TURA-03 Series can detect vector groups automatically.

TURA-03 Series has a wide operation range from high excitation value current transformer to high powered power transformer at substations with the 1V, 4V, 10V, 40V, 100V and 250V AC test voltage generation capability.

A 7-inch colour touch display allows TURA-03 Series to show all measurement results on a single screen.

USB, Bluetooth (Option) and Flash Memory features allow TURA-03 Series to control, record and store measurement results (102 Test Records).

With the HighTest Data Management Platform (DMP Software), users can control TURA-03 Series and analyse measurement results.

Operators can easily print the measurement results with the 2.28-inch built-in Printer of TURA-03 Series.

Multi-language capability and user-friendly operation menu make it easy to control TURA-03 Series, even by less trained staffs.

TURA-03 Series can control tap changer (raise and lower) via its tap changer outputs.

TURA-03 Series is a light, compact and rugged device with the protection of IP67 (case closed).

In addition to ratio tests, TURA-03 Series can be used to perform Magnetic Balance Test as well.





Features

- Turns Ratio Measurement
(Single-phase and three-phase measurement)
- Ranges from 0.8 to 50,000 ratio measurement
- High Accuracy (0.08 %)
- 1V, 4V, 10V, 40V, 100V and 250V AC test voltage
- Optional 1V, 4V, 8V, 10V, 40V, 100V and 250V test voltages
- Ratio Error Measurement
- Magnetic Balance Test
- Excitation Current, Phase Angle, Polarity Measurement
- OLTC Control
- Built-in Printer
- Automatic vector group detection feature
- Internal memory, USB Flash Drive
- PC control via USB cable
- Optional Bluetooth control and communication
- 7-inch large colour touch display

Technical Specifications

Measurement Parameters	Turns Ratio Measurement, Excitation Current, Phase Angle, Polarity, Ratio Error (%), Vector group detection, Magnetic Balance
Ratio Measurement Modes	CT Mode, PT Mode (Single-Phase and Three-Phase)
Measurement Method	ANSI/IEEE C57.12
Test Voltages	CT Mode: 1 V and 4 V ; PT Mode: 1, 4, 10, 40, 100, 250 V
Optional Test Voltages	1, 4, 8, 10, 40, 100, 250 V
Ratio Range	0.8 – 50,000 ; Resolution: 5 digits
Phase Angle Measurement	0-360 Degree ; Accuracy: ± 0.2 degree
Excitation Current	0 to 2A
Excitation Current Accuracy	± 0.1 mA
Power Supply	100-240 V 47/63 Hz
Battery	Yes, 14.4 V 3.6 Ah Optional (Models: TURA-03B, TURA-03B BLUE)
Memory	Up to 102 records (each includes up to 25 tap results) Unlimited Storage using an external USB
Printer	2.28-inch Built-in Thermal Printer
Communication	USB 2.0/1.1 Standard-A, USB 2.0/1.1 Standard-B, Optional Bluetooth (Models: TURA-03 BLUE & TURA-03B BLUE)
PC Software	DMP Software
Display	7-inch Colour Touch Display
Dimensions	16.7" x 13.4" x 6.8" (424 mm x 340 mm x 173 mm)
Weight	7.1 kg
Working Temperature	-10 °C to +60 °C
Storage Temperature	-30 °C to +70 °C
Humidity	95% RH non-condensing
Protection Class	IP67 (case closed)
Set of Package	TURA-03 Series device, Power Cable, Ground Cable , 5 m (16.4 ft.) Standard Test Cable Set, 10 m (33 ft.) Extension Cable Set, Tap Changer Cable Set, USB Cable, Printer Paper (x2), USB flash drive, Instruction Manual (Soft Copy), DMP Software, Cable Bag
Options	Hard Carrying Case, Bluetooth (factory install option), Battery (factory install option)
Ordering Information	TURA-03; 250V 3-Phase Transformer Turns Ratio Tester with Built-in Printer
	TURA-03 BLUE; 250V 3-Phase Transformer Turns Ratio Tester with Built-in Printer & Bluetooth
	TURA-03B; 250V 3-Phase Transformer Turns Ratio Tester with Built-in Printer & Battery
	TURA-03B BLUE; 250V 3-Phase Transformer Turns Ratio Tester with Built-in Printer, Bluetooth & Battery

Specifications are valid under 25 °C temperature. *Contents subject to change without notice.
Version V11.vm2203



HighTest Technology Ltd. is a leading manufacturing company based in the UK which produces highly precise test equipment. We mainly focus on the development, manufacture, and marketing of Transformer test systems.

We have several years of experience in the field of developing and producing high-end test equipment. Customer satisfaction is our prime motto. We supply our test equipment worldwide to Transformer manufacturers, Electrical utilities, general contractors and service companies. Our test equipment is designed and produced according to the most widely adopted international standards. As we value our customers the most, our well-experienced team always provide excellent after-sales support and technical assistance.



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