HIGHTEST
TECHNOLOGY

TRANSFORMER TURNS RATIO TESTER
TURA-01

Measures the Ratio of Transformers

Up to **33,000** Ratio

1 V to **100 V** Test Voltage

Large Colour Touch Display

High Accuracy 0.08%

Built-in Printer

Measurement

0.8 to 33,000 Ratio

Test Voltage

1V to 100V

High Accuracy

0.08%

TURA-01

Transformer Turns Ratio Tester

TURA-01 is designed by advanced engineering technology to measure the turns ratio of single and three-phase transformers.

TURA-01 has a fast, easy and accurate TTR measurement features for current, voltage and power transformers by its user-friendly software.

TURA-01 is one of the most accurate devices with its wide range (0.8 to 33,000) ratio measurement capability and high precision (0.08 %).

Besides the ratio measurement, TURA-01 can also measure excitation current, phase angle, polarity, and ratio error.

Even though TURA-01 has a single-phase cable configuration, the user can make three-phase transformer tests. TURA-01 can show all kinds of connection diagrams on display which can change depending on transformer configuration. The operator doesn't need to search for a connection diagram.

TURA-01 has a wide operation range from high excitation current transformer to high powered power transformer at substation with the 1V, 4V, 10V, 40 V and 100 V AC test voltage generation capability.

A 4.3-inch touch display allows TURA-01 to show all measurement results on a single screen.

USB, Bluetooth (Option) and Flash Memory features allow TURA-01 to control, record and store measurement results (up to 100 Test Records).

With the HighTest Data Management Platform (DMP), users can control TURA-01 and analyse measurement results.

Operators can easily print the measurement results with the 2.25-inch built-in Printer of TURA-01.

Multi-language capability and user-friendly operation menu make it easy to control TURA-01, even by less trained staff.

By using the optional TPA-03 Three Phase Adapter, the user can make 3 phase connection and can test all phases simultaneously.

TURA-01 is a light, compact and rugged device with the protection of IP67 (case closed).

Features

- Turns Ratio Measurement
  (Single phase and three phase measurement)
- Ranges from 0.8 to 33,000 ratio measurement
- High accuracy (0.08 %)
- 1V, 4V, 10V, 40 V and 100 V AC test voltage
- Ratio error measurement
- Excitation current, phase angle, polarity measurement
- Built-in printer
- Internal memory, USB Flash Drive
- PC control via USB cable
- Optional Bluetooth control and communication
- 4.3-inch large colour touch display
- Optional expansion feature with Three
  Phase Adapter (TPA-03)

Technical Specifications

Measurement Parameters	Turn Ratio Measurement, Excitation Current, Phase Angle, Polarity, Ratio Error (%)		
Ratio Measurement Modes	CT Mode, PT Mode (Single Phase and Three Phase)		
Test Voltages	CT Mode: 1 V and 4 V PT Mode: 1, 4, 10, 40, 100 V		
Ratio Range	0.8 – 33,000		
Accuracy	Mode	Ratio	Accuracy
	CT Mode (1V -4 V)	0.8-399 400-4000	0.08 % 0.1 %
	PT Mode(10 V- 100 V)	0.8-5000 5001-12000 12001-33000	0.08 % 0.15 % 0.5 %
Phase Angle Measurement	0-360 Degree		
Excitation Current	1 A		
Power Supply	85-240 V 50/60 Hz 14.4 V 3.6 Ah built-in battery		
Memory	Up to 100 record (include up to 25 tap results)		
Printer	2.25 inch printer		
Communication	USB, Flash Drive, Bluetooth (Option)		
PC Software	DMP Software		
Display	4.3 inch colour touch panel		
Dimensions	12.5" x 10.1" x 6.0" (318 mm x 257 mm x 152 mm)		
Weight	3.8 kg		
Working Temperature	-10 °C to +50 °C		
Protection Class	IP67 (case closed)		
Cables	15 feet (4.5 m) cable set		
Set of Package	TURA-01, Power Cable, 2 Printer Paper, USB Cable,15 feet Cable, Ground Cable		
Options	Carrying Case, TPA-03 Three Phase Adapter, Bluetooth		

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

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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.

HIGHTEST TECHNOLOGY

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