

AUTOMATIC TRANSFORMER RATIO METER

Features

- Complete Microprocessor controlled instrument
- Measures : Ratio with Deviation
: Phase angle
: Excitation Current
- Four Terminal measurement
- Three Phase switching network
- Reverse Polarity Indication & Correction
- Fast acting MCB & a safety Fuse
- RS-232 & Parallel Port Printer Interface
- USB (Pen drive) Interface Facility

Description

AMBER Transformer ratio meters use the Striking feature of four terminal measurements. It basically measures the NO-LOAD turns ratio of a transformer i.e., **The ratio of the high voltage winding to the low voltage winding of a transformer.** Additionally the facility of phase angle measurement can be used to predict inter-turn shorts, core shifts etc.

AMBER Transformer ratio meters has an in-built excitation current meter calibrated in two ranges (1mA & 1A). It measures the excitation current of the transformer under test at 120V. A three phase switching network is provided to ease the operation of cable connection. The protection circuit comprising of a fast action Miniature Circuit Breaker along with a fast blow fuse ensures absolute Safety of operation.

The Instrument has an in built RS-232 & Parallel Port Printer interface that enables the user to dump the values to the Printer. In-built Data Storage facility is used to store the measured values. USB (Pen drive) Interface is used to transfer the measured values to the Pen drive.

Specification

Measuring Range	: 0.8 : 1 to 2021 : 1
Accuracy	: $\pm 0.1\%$ of the ratio
Phase angle in CR	: Ranges of 0.50CR & 5.0CR
Test Voltage	: 3V/6V, 12V & 120V AC at 1A isolated
Power	: 230V AC $\pm 10\%$, 50Hz, 150VA
Dimensions	: 19"x 15" x6" (L x W x H)
Weight	: 20 Kgs (approx)

NOTE : AMBER XR-120S^{HT} can measure only single phase.
AMBER XR-120^{HT} can measure three phases at a time.



AMBER XR-120S^{HT} & AMBER XR-120^{HT}

Applications

- Distribution Transformers
- Power Transformers
- Current Transformers
- Potential Transformers
- Auto Transformers

Display & Indicator

- 320x240 dot Back-lit Graphical LCD display.
- Alarm indication for wrong selection.

Printing

- Customer Name
- Date & Time
- Serial number
- Transformer type
- Input voltage
- Ratio
- Phase angle in CR/MIN
- Excitation current in A (or) mA
- Vector group
- Terminals

Key Board Controls

25 Key pad membrane Contains the following keys:

- Print(F1)
- Save(F2)
- Recall(F3)
- Shift (F4)
- USB Read(F5)
- USB Write(F6)
- I/O ON/OFF
- SEARCH
- Delete
- Symbols

Specifications may change without notice due to continuous development.