



Innovation to Engineering

ATRI-201

AUTOMATIC TURNS RATIO INSTRUMENT



LT Cable ← → HT Cable

One Set Cable
Length 10 meter

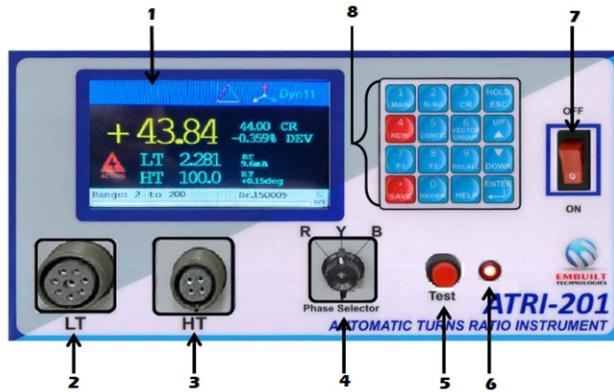
Features

- **Multi Parameter Testing**
Turns Ratio (from 1 to 200)
Excitation Current
HT & LT Voltages
Polarity
Percentage Deviation
Phase Angle
- **Fully Automated Measurement System**
- **Three-Phase Testing** via selector switch - no clip changes required
- **LV - Side Excitation** for maximum operator and instrument safety
- **Stable Internal Reference Voltage** - immune to power line fluctuations
- **Vector Group Supported** - YNyn0, Dd0, YNd1, Dyn5, YNyn6, Dd6, YNd7 & Dyn11
- **Industrial-Grade Terminals** with standard load-cell connectors on both HT & LT sides
- **Computer Interfacing** via Serial Port - DB9 / RS-232 Port
- **Internal Memory** to save up to 50 test reports, allowing on-device review of last 50 test data

Application

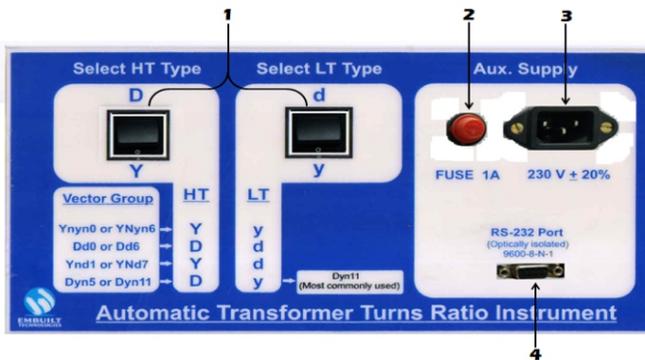


Front Panel Description



1. 4.3" (480x270 pixel) TFT Display
2. Sensing and Excitation Terminal for LT Voltage
3. Sensing Terminal for HT Voltage
4. Phase Selector Knob
5. ON/OFF Switch for applying test voltage
6. LED indication for excitation
7. Aux. ON./OFF Switch
8. 4X4 Keypad

Back Panel Description



1. Type Selection :
It is used to select the transformer type Y-y, Y-d, D-d, D-y (Vector group select by F4 button on Front)
2. Test Supply Fuse :
1A Fuse is incorporated with in fuse holder for protection.
3. Aux. Supply - 230V AC ± 20%
4. RS-232 port for Software communication

Technical Specifications

Turns-Ratio Range	1.000 to 200.0
Accuracy Class	Class 0.1
Excitation Voltage	2.2V AC @ 100Hz
Max. Excitation Current	500mA
Auxiliary Supply	230V AC ± 20%
Vector Group Supported	YNyn0, Dd0, YNd1, Dyn5, YNyn6, Dd6, YNd7 & Dyn11
Phase Testing	3-phase, no clip changes
Safety Features	LV - side excitation, fuse protection
Terminals	Industrial standard load-cell connectors (HT & LT)
Comm. Interface	Serial Port - DB9 / RS232 Port
Data Saving	Stores up to last 50 test reports for review
Dimension (mm)	Front -135 (H) 280(W) 280(D)

Principle of Operation

ATRI-201 applies a 2.2V AC test signal (which is internally generated, independent of external power fluctuations) to the Low-Voltage (LV) winding of the transformer. It then precisely measures the resulting voltage on the High-Voltage (HV) winding.

Developed & Manufactured By :



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Power Cable



USB Cable



RS-232 Cable



Set of 10 m Long
3-Phase Cable
For HT & LT Use



Calibration Report

Accessories

Other Related Products

- 1- Automatic Turns Ratio Instrument (ATRI-3)
- 2- Single Phase Turns Ratio Instrument (TRI-1)
- 3- Transformer Winding Resistance Meter (TRM-1A)
- 4- Double Voltage Double Frequency (DVDF-1)