



Innovation to Engineering

# ATRI-3

## AUTOMATIC TURNS RATIO INSTRUMENT



Set of 10 Meter Long Cable for LT & HT use

### Features

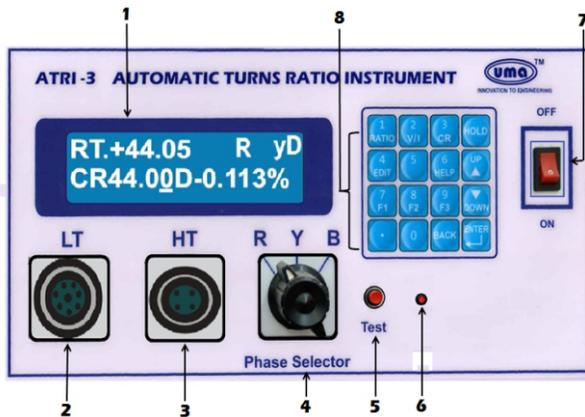
- **Multi Parameter Testing**  
Turns Ratio (from 1 to 200)  
Excitation Current  
HT & LT Voltages  
Polarity  
Percentage Deviation
- **Fully Automated Measurement System**
- **Three-Phase Testing** via selector switch - no clip changes required
- **LV - Side Excitation** for maximum operator and instrument safety
- **Stable Internal Reference Voltage** - immune to power line fluctuations
- **Vector Group Supported** - YNyn0 & Dyn11
- **Industrial-Grade Terminals** with standard load-cell connectors on both HT & LT sides
- **Compact, User-Friendly Design**

### Application



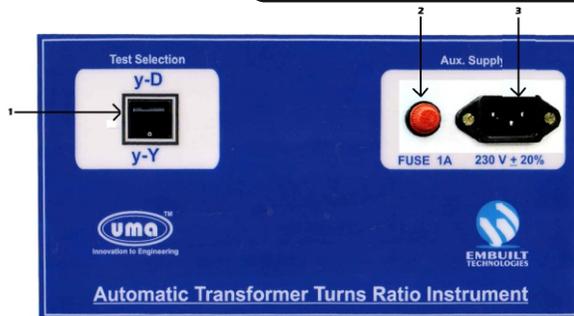
# Smart Solution Makes You **SMARTER**

## Front Panel Description



- 1- 16X2 Jumbo LCD Display (Color Bluemoon)
- 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 OR y-D
2. Test Supply Fuse :  
1A Fuse is incorporated with in fuse holder for protection.
3. Aux. Supply - 230V AC ± 20%

## 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 & Dyn11
Phase Testing	3-phase, no clip changes
Test Cable	One set, 10 m length
Safety Features	LV - side excitation, fuse protection
Terminals	Industrial standard load-cell connectors (HT & LT)
Dimension (mm)	Front -135 (H) 280(W) 280(D)

## Principle of Operation

ATRI-3 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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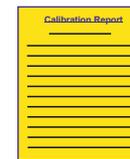
## Accessories



Power Cable



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



Calibration  
Report

## Other Related Products

- 1- Automatic Turns Ratio Meter (ATRI-201)
- 2- Single Phase Turns Ratio Instrument (TRI-1)
- 3- Transformer Winding Resistance Meter (TRM-1A)
- 4- Double Voltage Double Frequency (DVDF-1)