



**EMBUILT  
TECHNOLOGIES**

# VTRI-318

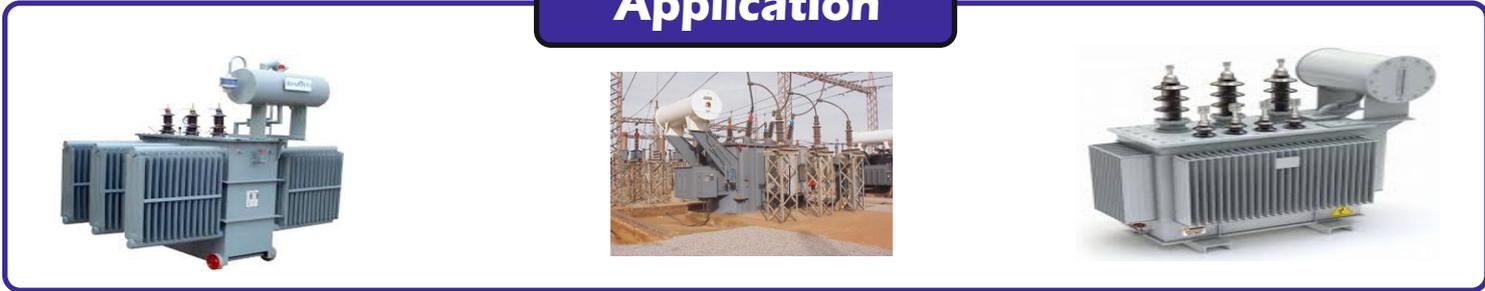
## Vector Group Transformer Turns Ratio Instrument



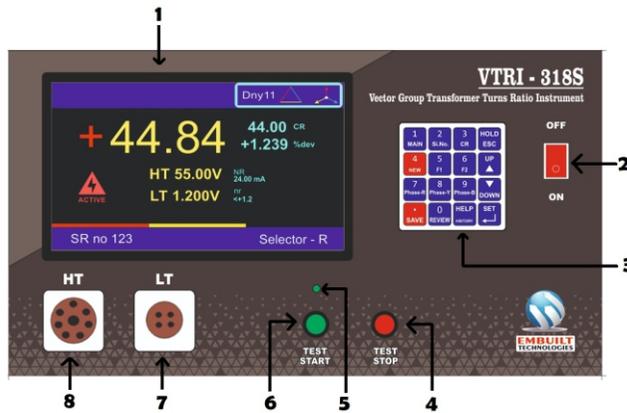
### Features

- **Measures Multiple Parameters**
  - Turns Ratio
  - Excitation Current
  - HT & LT Voltages
  - Polarity
  - Percentage Deviation
  - Phase Displacement
- **Supports Transformer All Vector Group Testing** for Y-y, Y-d, D-y, D-d combinations
- **Large TFT Touch Display** (Size : 7" diagonal) for easy operation
- **HT - Excitation** : 55V AC @ 230V Auxiliary Supply
- **Ideal for Transformer Testing** up to 10MVA
- **3-P Testing** one time connection for complete testing , Manual / Auto., no reconnection, no selector switch
- **Standard - Grade Terminals** with MIL-standard load-cell connectors on both **HT & LT** sides
- **PC Connectivity** through RS-232 port
- **Internal On-board Memory** to store upto 25 test results, viewable on device and transferable to PC

### Application

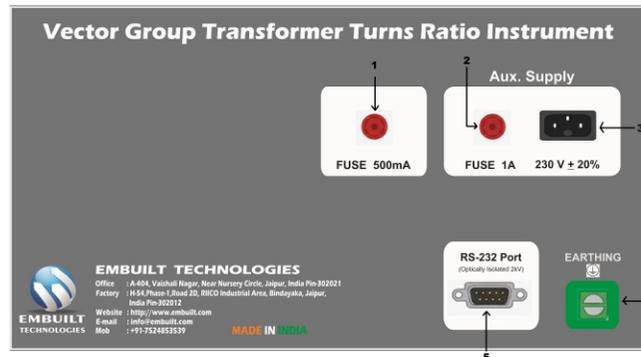


## Front Panel Description



- 7" TFT Display – Shows test values, status and operating menu.
- AUX ON/OFF Switch – Controls auxiliary power supply.
- 4x4 Keypad – Used for parameter setting and navigation.
- STOP Switch – Instantly stops test voltage for safety.
- Excitation LED – Indicates excitation start condition.
- TEST Voltage ON Switch – Applies the test voltage.
- LT Sensing Terminal – Connection for LT voltage sensing .
- HT Sensing & Excitation Terminal – Connection for HT voltage sensing and excitation.

## Back Panel Description



- Excitation Fuse : Excitation circuit protection
- Mains Fuse : Mains input protection
- Aux Supply : 230 V AC input
- Earth : Protective grounding
- RS-232 (DB9): Communication interface

## Technical Specifications

Turns-Ratio Range	1.000 to 200.0 (Up to 2000 Also Available )
Accuracy Class	Class 0.1
HT Excitation Voltage	55V AC @ 230V Auxiliary Supply
Max. Excitation Current	200mA
Auxiliary Supply	230V AC $\pm$ 20% , 50 Hz
Vector Group Supported	Y-y, Y-d, D-y, D-d combinations Total 18 Vector groups
Transformer Capacity	Up to 10MVA
Phase Testing	3-phase, no clip changes
Terminals	Standard load-cell connectors (HT & LT)
Comm. Interface	RS-232 Port
Data Saving	Store upto last 25 test results in Internal Memory (Viewable on device and transferable to PC)
Dimension (mm)	Front -178 (H) 345(W) 307(D)

## Other Related Products

- Compact-1 (Handy Transformer Turns Ratio Instrument)
- Transformer Winding Resistance Meter (TRM-1A)

## Accessories



Power Cable



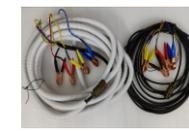
USB Cable



RS-232 Cable



Software CD



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



Calibration Report

Developed & Manufactured By :



**EMBUILT TECHNOLOGIES**

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