



## FTBB-10A

# TRANSFORMER TURNS RATIO TESTER

INTELLIGENT ☒ AUTOMATIC ☐ PORTABLE ☒

- ✧ 240×128 color LCD screen display
- ✧ Built-in Thermal Printer
- ✧ AC power supply & lithium battery included
- ✧ Available for both single phase and three phases transformer tests

## ■ INTRODUCTION



The power transformer shall be regularly tested for turns ratio or voltage ratio, including semi-finished products and finished products in the production process, transformers before putting into operation and during operation in the power system. The traditional transformation ratio bridge is cumbersome to operate, the reading is not intuitive, the necessary conversion is needed, and the test results only reflect one phase transformation ratio.

FUOTECH's **FTBB-10A Intelligent Automatic Transformer Turns Ratio Tester** overcomes the shortcomings of the traditional transformation ratio bridge test, completes the three-phase transformation ratio test at one time, has fast test speed and high accuracy, and greatly improves the test efficiency.

## ■ MAIN FUNCTIONS AND CHARACTERS

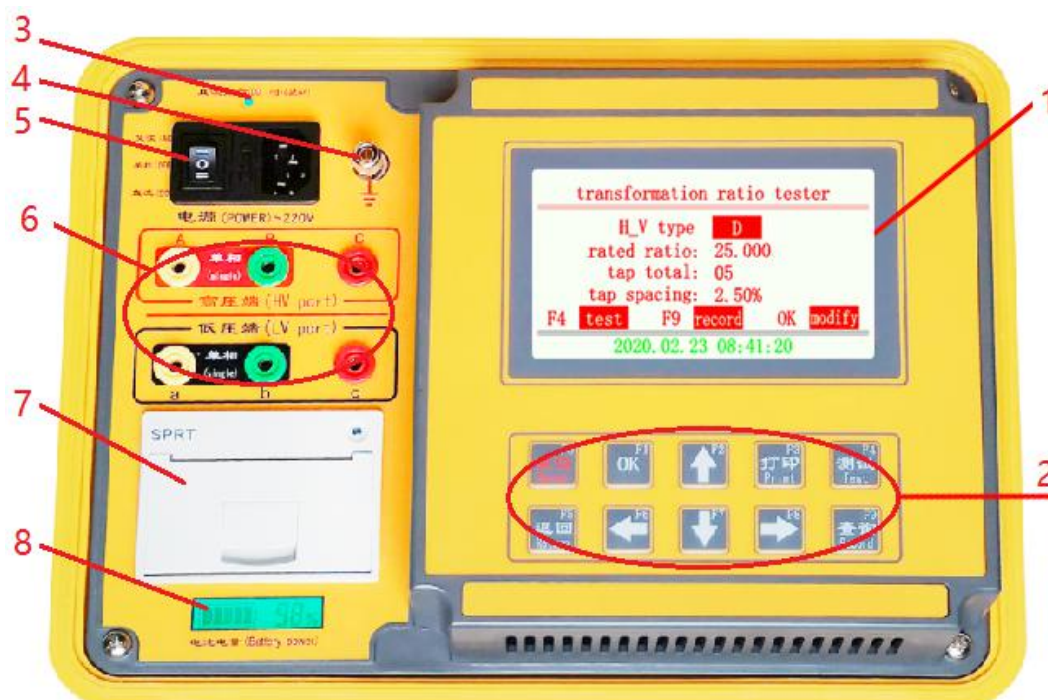
- ✓ The test range is wide, up to 10000.
- ✓ The test speed is fast, and the single-phase test is completed within 5 seconds.
- ✓ 240 \* 128 color LCD screen, the interactive interface is more intuitive.
- ✓ Z-connection transformer test.
- ✓ It has the functions of blind measurement of transformation ratio, group test, tap position test, etc.
- ✓ No power down clock and date display, data storage function (850 groups of test data can be stored).
- ✓ High and low voltage reverse connection protection function.
- ✓ Transformer short circuit and inter turn short circuit protection function.
- ✓ Thermal printer output function, fast and silent.
- ✓ AC / DC power supply mode is adopted, and it can be used with or without mains power on site.
- ✓ Small size, light weight and easy to carry.



## PARAMETERS

|                            |                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Ratio measurement range    | 0.9 ~ 10000                                                                                                                   |
| Ratio measurement accuracy | 0.1%±2 digital (0.9 ~ 500);<br>0.2%±2 digital (500 ~ 2000);<br>0.3%±2 digital (2000 ~ 4000);<br>0.5%±2 digital (4000, above). |
| Resolution                 | minimum 0.0001                                                                                                                |
| Output voltage             | 160V/10V (Autoshift)                                                                                                          |
| Working power supply       | 1). AC mode: AC220V ± 10%, 50Hz. (Do not use generator)<br>2). DC mode: Lithium battery included.                             |
| Operating temperature      | -10 °C ~ 40 °C                                                                                                                |
| Related humidity           | ≤80%, no condensation                                                                                                         |
| Dimension                  | Host: 360×290×170 (mm)<br>Cable box: 360×290×170(mm)                                                                          |
| Weight                     | Host: 5.5 KGS<br>Accessories: 2.5 KGS                                                                                         |

## MORE DETAILS

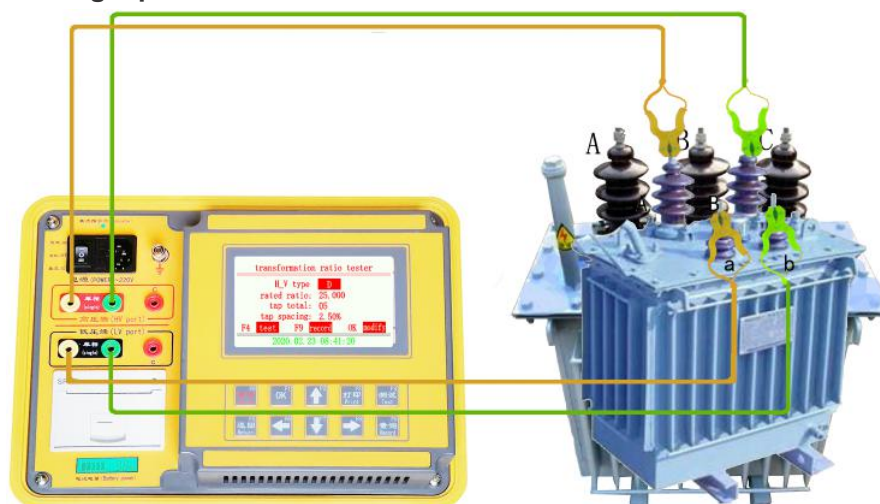




1. **Color LCD Display:** 240 × 128 dot matrix color LCD screen, displaying operation menu and test results in English, intuitive interactive interface and simple operation.
2. **Function Keys:**
  - Reset:** Press this key to reset the whole machine and return to the initial state.
  - ↑ ↓ ← →:** Move the cursor and follow the screen prompts during use.
  - Test:** press it to perform the test operation.
  - Print:** press this key to print out the test results.
  - Other keys:** Please operate according to the prompts on the display screen and follow the manual.
3. **DC indication:** When DC working mode is adopted, the DC indicator light is on.  
Under normal conditions, the indicator light is green; In case of failure, it is red.
4. **Grounding:** Used for grounding to protect the personal safety of users and protect the instrument.
5. **3-in-one switch:**
  - When working in AC mode, it is used to connect AC220V ± 10%, 50Hz power supply, and the socket is equipped with fuse.
  - Select the power supply mode of the instrument and start it.
    - : Select AC mode and start up (external AC220V / 50Hz power supply ); (Do not use the generator)
    - : Instrument shutdown;
    - =: Select DC mode and start up (internal lithium battery power supply, no external power supply).
6. **High voltage terminal(HV Port):**  
The Yellow / Green / Red test line is connected with the high-voltage A / B / C terminal of the transformer.
- Low voltage terminal (LV Port):** The other set of Yellow / Green / Red test line is connected with the low-voltage a / b / c terminal of the transformer.
7. **Printer:** Print out the test results.
8. **Battery power:** At DC working mode, the remaining power of battery is displayed.

## ■ WIRE CONNECTIONS

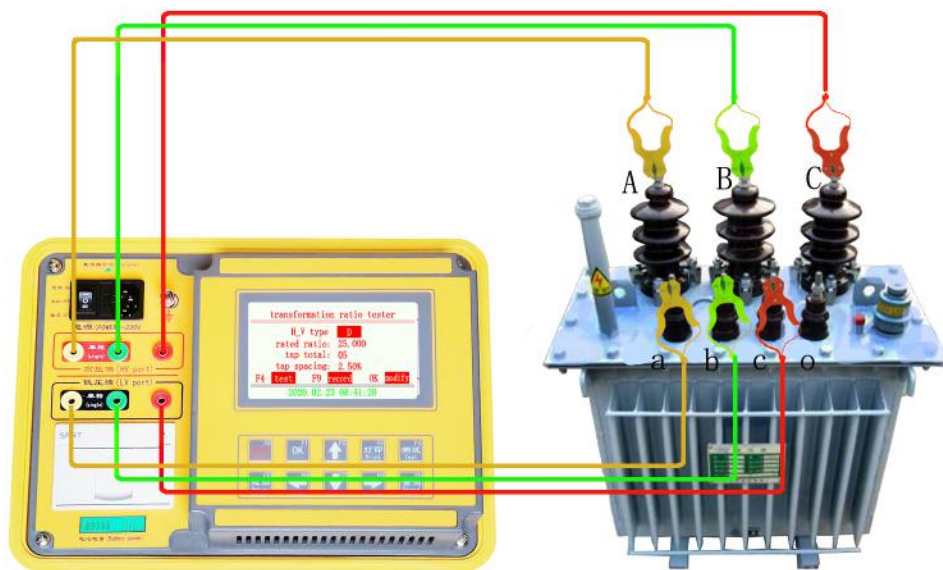
### 1. Measurement of Single phase transformer or PT transformer



Transformer



## 2. Measurement of three-phase transformer



Transformer

■ MORE PICTURES





## PROJECT CASE



## PRODUCT IN STOCK





## ■ PACKING, DELIVERY, SHIPPING, PAYMENT TERMS



**Payment**

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## CERTIFICATES



## OTHER TESTING EQUIPMENTS YOU MIGHT BE INTERESTED IN

### Part I: Oil Testers

- ✧ Transformer Oil BDV Tester
- ✧ Transformer Oil Trace Moisture Content Tester
- ✧ Transformer Oil Acidity Tester
- ✧ Transformer Oil Interfacial Tension Tester
- ✧ Transformer Oil Flash Point Tester (Open/Closed Cup)
- ✧ Transformer Oil Tan Delta Tester
- ✧ Transformer Oil DGA (Dissolved Gas Analyzer) Tester
- ✧ Transformer Oil Kinematic Viscosity Tester
- ✧ Transformer Oil Density Meter
- ✧ Transformer Oil Particle Counter
- ✧ Sf6 Gas purity and Decomposition Tester
- ✧ Portable Dew Point Meter

### Part II: Transformer & HV Testers

- ✧ Transformer Load and No Load Loss Tester
- ✧ TTR Transformer Turns Ratio Tester (Portable/Handheld Type)
- ✧ Transformer DC Resistance Tester 1 ~ 100A
- ✧ Transformer Tan Delta and Capacitance Tester 0 ~ 12kV
- ✧ CT PT Analyzer
- ✧ SFRA Transformer Sweep Frequency Response Analyzer
- ✧ VLF Hipot Test Set 30 ~ 90kV
- ✧ Insulation Resistance Tester 0.25 ~ 30kV
- ✧ AC Hipot Tester
- ✧ DC Hipot Tester
- ✧ Circuit Breaker Contact Resistance Tester
- ✧ Grounding Earth Resistance Tester



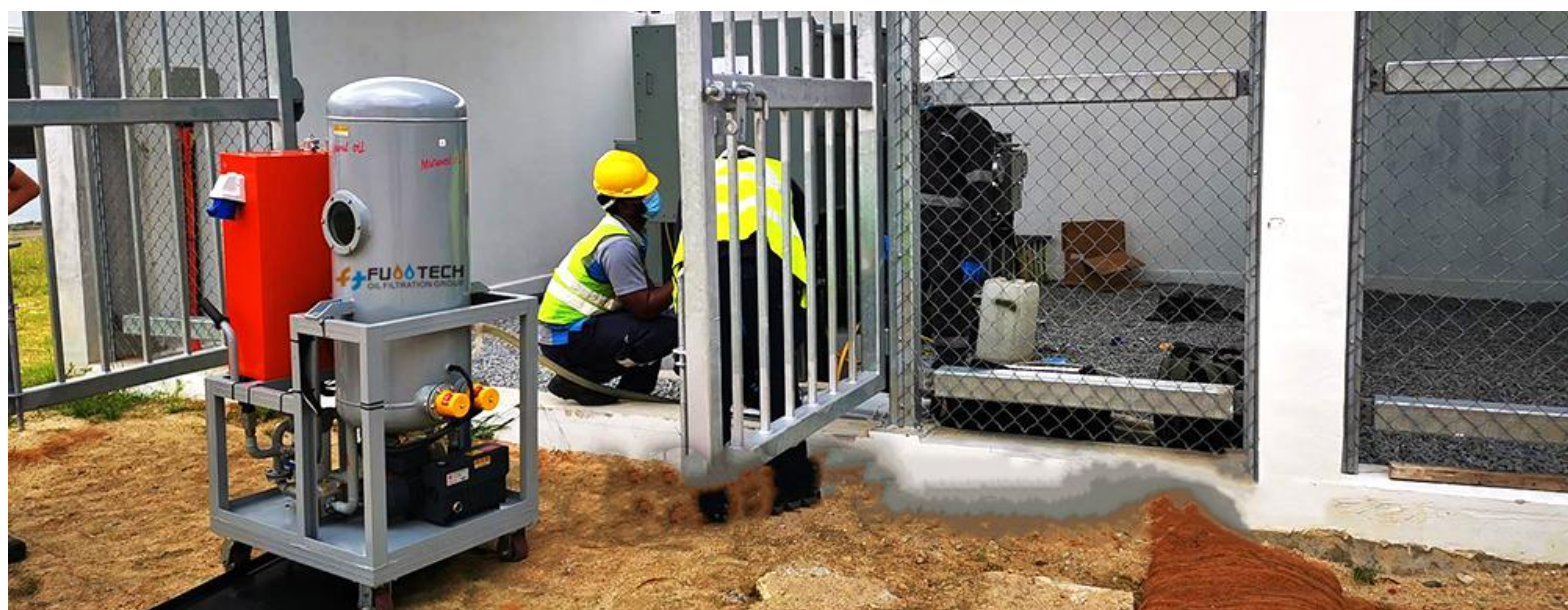
## ■ ZYD SERIES DOUBLE-STAGE VACUUM TRANSFORMER OIL FILTRATION MACHINE



Project cases



## ■ ZY SERIES SINGLE-STAGE VACUUM TRANSFORMER OIL PURIFIER



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