

## GF112T

### Handheld Transformer Core Leakage Current Tester

The GF112T transformer core leakage current tester is a device designed for on-site online tests of grounding and leakage currents in transformer iron cores. It features a current clamp, monitoring meter, communication module, and other functions. The tester is designed with high-speed microprocessor and 3.5-inch color touch screen LCD, enabling smart touch operation and easy use, it can display the value and waveform of measured current in real time. It can measure U/I/P/Q/S/F/PF etc. This tester helps identify potential faults in transformers, ensuring safe operation and facilitating routine maintenance.

It is versatile and suitable for various sectors including electric power, communications, meteorology, railways, oil fields, architecture, metrology, academic institutions, and industrial enterprises. It is also useful in scientific research and teaching institutes, providing a comprehensive solution for diverse fields.

### Functions

1. AC leakage current;
2. Display of vector diagram;
3. Current measurement online;
4. Data logger for all the parameters;
5. Transformer core ground current test;
6. Display harmonic contents and bar graph;
7. Oscilloscope function display current & current wave;
8. Frequency, phase angle and power factor measurement;
9. Measure active power, reactive power and apparent power;



### Application

1. Strong Anti-interference;
2. U disk download test data;
3. Accuracy class 0.05, 0.1, 0.2;
4. 3.5 inch color touch TFT LCD;
5. Leakage current measurement;
6. Android APP software optional;
7. Storage 20000 groups test data;
8. Easy and user friendly operation;
9. Lithium batteries can be replaced;
10. 1mA high-precision measurement;
11. Large Jaw size 120mm clamp on ct;
12. With PC software, export test report;
13. Power factor from -1.0000 to 1.0000;
14. Automatic compensation for clamp on cts;
15. With bluetooth & USB communication port;
16. Unique long-term and temperature stability;
17. The best light weight handheld meter test set;
18. The Li-battery can work 48 hours continuously;
19. One screen displays all the measured parameters;
20. Wide measuring range 0 -600V /0.001-120A/40-70Hz;
21. The reference meter and current clamp have separate design;

## Parameters

| Electrical parameters             |   |
|-----------------------------------|---|
| Accuracy class                    | 0.05%, 0.1%, 0.2%   |
| Power supply                      | AAA type, Li rechargeable battery, 2700mAh, 3.6V<br>it can work 48 hours continuously |
| Warming-up time                   | <2 min  |
| Voltage measurement               |   |
| U Range                           | 0-600.00V   |
| Accuracy                          | 0.05%   |
| Harmonics                         | 2nd-31st  |
| Current measurement(Clamp on cts) |   |
| I Range                           | 1.000mA-120.000A  |
| Accuracy                          | 0.05%, 0.1% , 0.2%  |
| Harmonics                         | 2nd-31st  |
| Clamp on cts diameter             | 120mm   |
| Phase measurement                 |   |
| Range                             | 0.00°-359.99°   |
| Resolution                        | 0.01°   |
| Accuracy                          | 0.05°   |
| Frequency measurement             |   |
| Range                             | 40-70Hz   |
| Resolution                        | 0.001Hz   |
| Accuracy                          | 0.002Hz   |
| Power Factor Measurement          |   |
| Range                             | -1 ~ 0 ~ 1  |
| Resolution                        | 0.0001  |
| Accuracy                          | 0.0002  |
| Function                          |   |
| Harmonic measurement              | Yes   |
| Key                               | Yes, 2PCS   |
| LCD                               | 3.5 inch touch TFT color LCD  |
| Data logger                       | Yes   |
| Data storage                      | 20000 sets  |
| Recorder time interval            | 1S, 2S....60mins can be set   |
| Data download                     | Yes, U disk   |
| Communication port                | USB & Bluetooth port  |
| Standard                          |   |
| Standard                          | IEC61326  |

**Electrical parameters - continued**
**Safety**

|                           |                     |
|---------------------------|---------------------|
| Isolation protection      | IEC 61010-1:2001    |
| Measurement Category      | 600 V CAT III       |
| Degree of protection      | IP54                |
| Declaration of conformity | CE & CNAS certified |

**Mechanical parameters**

|                         |  |
|-------------------------|--|
| Dimensions (WxDxH) (mm) | 155x75x33  |
| Weight (kg)             | 0.22 (mains), clamp on ct 1.2kg<br>2.5 (accessory and box) |

**Environmental conditions**

|                     |               |
|---------------------|---------------|
| Working temperature | -20°C to 55°C |
| Working humidity    | 5%-85%RHD     |
| Storage temperature | -25°C to 70°C |
| Storage humidity    | 5%-95%RHD     |