TTR100-1

Hand-held Transformer Test Set

Rating: Not Rated Yet
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ManufacturerMegger

Description

- Single- and three-phase transformer testing (up to 1 MVA)
- Tests turns ratio, phase displacement, excitation current, vector group, winding resistance, and polarity
- Fully automatic, fast, easy-to-use, handheld, robust, lightweight
- Battery powered, line rechargeable, with power saving and shutdown function
- RS232 for data transfer and printing
- Stores 200 test results and 100 user-defined transformer test settings

The TTR100-1 handheld transformer turns ratio tester (TTR) is a robust, lightweight, and battery-operated instrument. It is used to measure the turns ratio, excitation current, phase displacement, DC resistance, and polarity of windings in single- and three-phase distribution transformers (tested phase-by-phase), potential and current transformers (PTs and CTs), and tapped transformers. Deviations in these measurements will quickly indicate problems in transformer windings or in the magnetic core circuits.

The TTR100-1 measures the highest turns ratio in the industry with an accuracy of 0.2 % or better and with the lowest excitation voltage. It can also accurately measure phase deviation (in minutes or centiradians) of the transformer primary versus secondary. This measurement is also useful in verifying phase errors in PTs and CTs.

The TTR100-1 features special software capabilities. It comes equipped with sufficient on-board memory to store up to 200 test results (including test report header information) in the field for later retrieval, as well as 100 user-defined transformer settings. Test results can be downloaded to a PC and it is easy to identify individual test readings. The system software allows entry of the transformer alphanumeric serial number, transformer type, and tap information (numerical, alphabetical, or alpha-numerical) for each test performed.

The unique design of the TTR100-1 allows you to operate the test set while holding it in one hand. Realising the variety of harsh environments in which the TTR100-1 must operate, special attention has been paid to making it extra rugged and robust, with a high impact, shock-resistant case. Yet it is also incredibly lightweight at 3.3 lb. (1.5 kg), weighing less than any other commercially available instrument on the market.

The TTR100-1 is particularly suited for testing in substations and transformer manufacturing environments where testing single and three-phase transformers can be performed. This TTR will complement several existing Megger transformer test products due to it's variety of functions, and these functions, including the phase angle measurement function, can be switched off when not required. The TTR100-1 provides reliable results, helping you determine the condition of the transformer under test and features a high contrast LCD screen that can be seen in bright or ambient light.

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Data
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