



Addendum TTR279X:

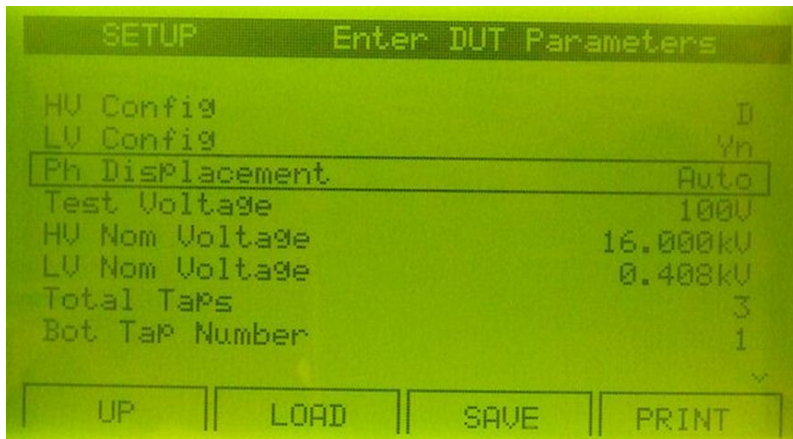
This document describes the changes and improvements, which have been made to firmware Versions 2.6.7 (or newer) of the TTR2795 and firmware Versions 1.1.4 (or newer) of the TTR2796.

These firmware versions contain the following changes:

- A complete New algorithm to detect the correct clock-number (New Semi-Automatic mode)
- Proper display of 180° Phase shift (Improved Manual mode)
- Option to show the Zig-zag turns ratio based on the whole Z winding or a Single leg of the Z.
- A Ratio Limit is added to the Setup screen- Additional Debug information
- Possibility to choose in the Setup; to print the “Voltage Ratio” or “Turns Ratio” on the paper

New Semi-Automatic mode:

Under Setup the user can select to input the: „HV- & LV- Config“ and also the „Ph Displacement“.

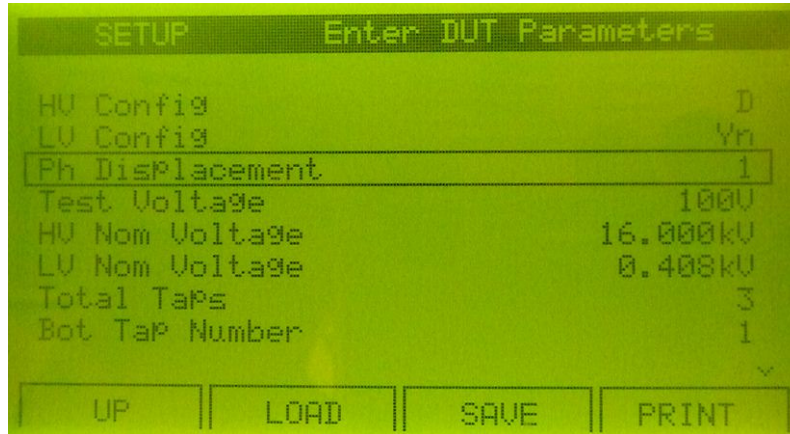


The TTR will find out the Ph Displacement (clock-number) and verify if the selected Settings for: “HV- & LV- config” under “Setup”, fit with the „Ph Displacement (clock-number)”. If not it will display an error message.

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| Author: R.M. Schomper | Date: 06.06.2012 | Visum: RMS | Version: 1.0 |
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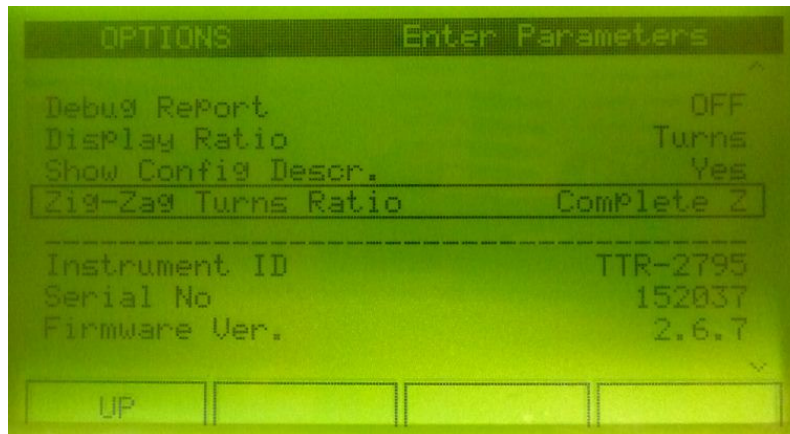
Improved Manual mode:

The (new) Manual Mode will make a quick check to decide if the windings are not reversed connected (180° Phase shift). It will verify if the Ph Displacement given under “Setup”, fits with the selected Setting for: “HV- & LV- Config” and displays an error message in case the two don't match.

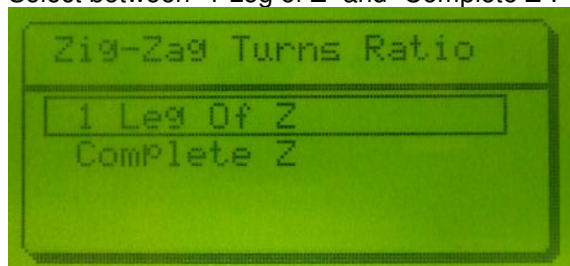


Option to show the Zig-zag turns ratio:

The Zig-zag Turns ratio can be selected, in order to measure the complete Z-winding or a Single leg of the Z. (complete Z is recommended and matches the previous firmware versions of the TTR2795/2796. 1 Leg of Z is the way some older TTR instruments display the Z-winding turns ratio and the way some of our customers like it to be displayed)

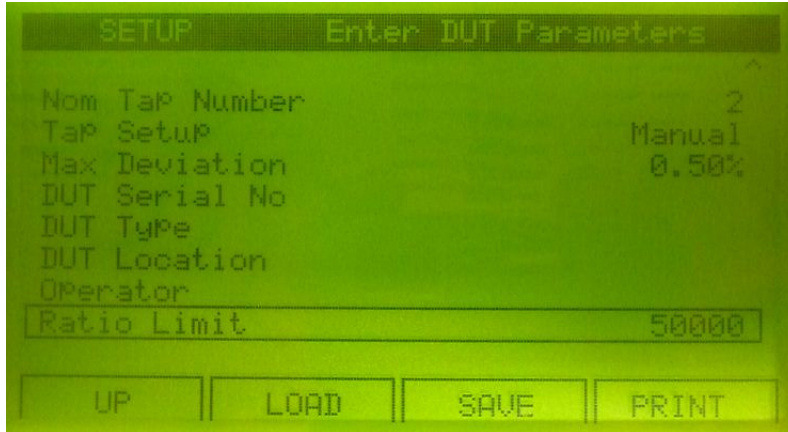


Select between “1 Leg of Z” and “Complete Z”.



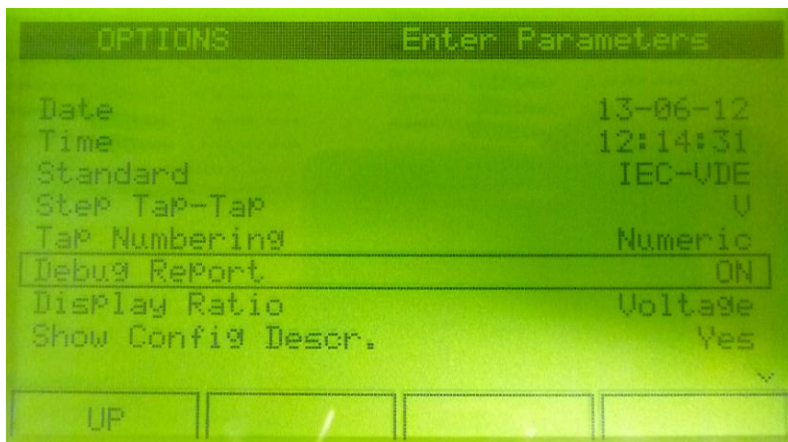
Ratio Limit:

A ratio Limit can be set in the setup and an error message will appear if the ratio measured by the TTR is higher than the limit set by the user.

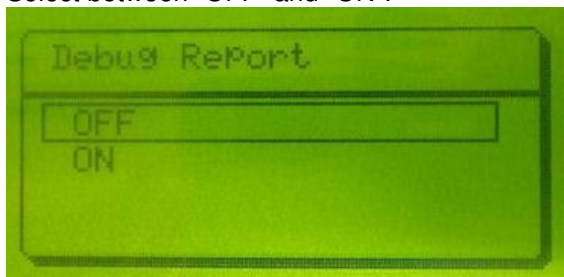


Additional Debug information:

The “Debug Report” can give important information to the Technical department of Tettex regarding a test performed by the TTR. In case of false detection of a 3-Phase transformer, please Switch On the Debug Report and re-test the transformer. Send the Debug Report to: support@tettex.com

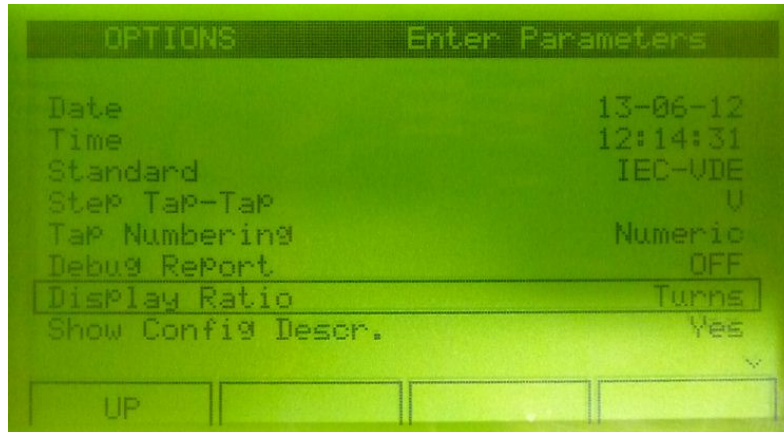


Select between “OFF” and “ON”.

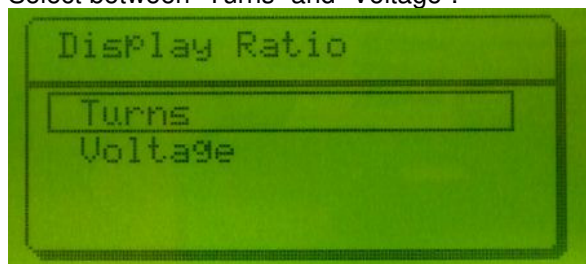


“Voltage Ratio” or “Turns Ratio”:

The TTR can print either the “Voltage Ratio” or the “Turns Ratio” on paper. After and during the measurement the ratio on the display can be switched between “Voltage Ratio” or “Turns Ratio”.



Select between “Turns” and “Voltage”.



In case any questions or problems arise with your TTR279X please contact our Technical support at: support@tettex.com