

Products and technology

Even faster and more precise with automation

Enhanced voltage transformer testing with VOTANO 100

VOTANO 100 has been used to test and calibrate voltage / potential transformers precisely and quickly since 2013. With a total weight of less than 15 kg / 33 lbs, its light-weight design makes it ideal for mobile use. With this configuration it has already been setting the standard for mobile voltage / potential transformer measurements. Thanks to the new VBO2 amplifier and switch box, it is now possible to test voltage / potential transformers without time-consuming rewiring by simply pushing a button.

Before VOTANO 100 entered the market, testing and calibrating voltage / potential transformers was a tedious process. An extremely heavy testing system had to be transported to the test site, or the transformer had to be dismantled and sent to specialized laboratories. Both methods were very costly and time consuming. When VOTANO 100 entered the market, it provided the first real alternative to these options. The testing and calibration system measures winding resistance, short circuit impedances, the transformation ratio and the magnetic characteristic of inductive or capacitive voltage / potential transformers in a single measuring cycle. The results for the voltage / potential transformer under loaded and without load with

up to five secondary windings are available in less than 15 minutes. The data obtained is automatically evaluated in accordance with international standards. VOTANO 100 makes it possible to test and calibrate class 0.1 voltage / potential transformers precisely.

Automatic testing without rewiring

VOTANO 100 will soon be delivered with the new VBO2 amplifier and switch box, the successor to the VBO1. Thanks to the new functionality of the VBO2, the transformer only needs to be wired once. Depending on the number of secondary windings, up to three cables must be plugged into the transformer's secondary side and connected to the VBO2.



VOTANO 100

- > Very high accuracy allows field calibration of VTs up to the 0.1 accuracy class
- > Excellent mobility through compact size and light weight (< 15 kg / 33 lbs)
- > Automatic result assessment as per IEEE and IEC standards directly after the test
- > Short testing time compared to conventional methods (< 15 min)

 www.omicron.at/votano100

In addition, a cable used to feed the maximum reference voltage of 4 kV, must be plugged into the primary side of the transformer when measuring transformation ratios. Voltage / potential transformers with up to five secondary windings can thus be tested with the utmost accuracy and repeatability with the push of a button. There is no longer a need for time-consuming rewiring between the individual measurements. The advantages of the VBO2 for the user are obvious; the testing process is completed even faster, whereby the likelihood of wiring errors is minimized significantly.

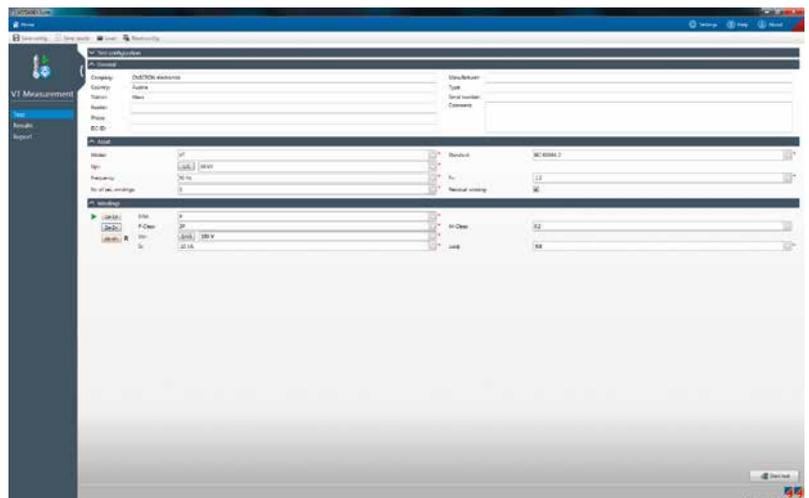
New software functionality

The new software version 2.00 not only comes with a new user interface with customized work flows but for the first time it also facilitates a completely automated measurement of voltage / potential transformer burdens. This process can be integrated into the guided workflow upon request. In addition, the influence of any operating burdens and cable impedances can be investigated using the simulation mode.

In Version 2.00, the user interface has been noticeably refined and the design has been adapted to modern

standards with the familiar OMICRON software. In particular, the clear menu navigation and neatly arranged presentation of measurement results make working with VOTANO 100 even more efficient.

With VOTANO 100 and VBO2, you have an unbeatable team at your disposal for voltage / potential transformer testing and calibration. 



VOTANO 100 software version 2.00