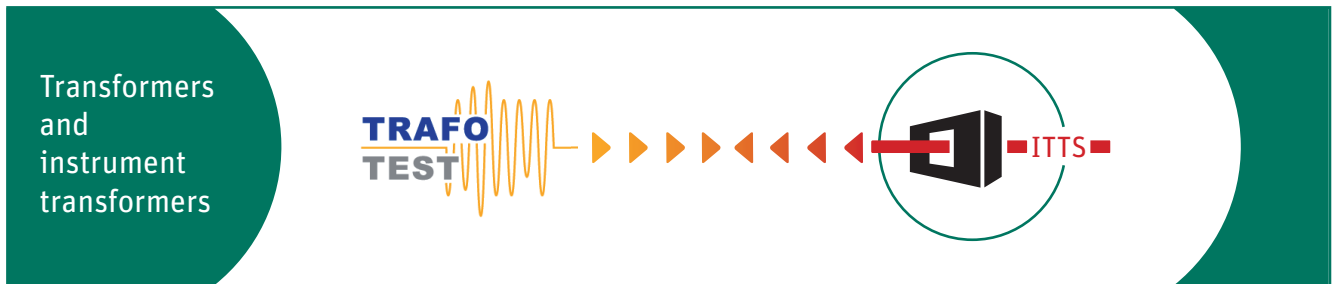


# Infopaper

03/2015

## TrafoTest Combi – All-in-one.

TrafoTest Combi is a fully-automatic test system for combined routine test of transformers, protection transformers and instrument transformers. All measurements carried out by laboratories or manufacturers, can be performed and evaluated by one system and from one location – possible by a cooperation of two experienced test equipment manufacturers.



### Combined Routine Test. Efficient as it could be.

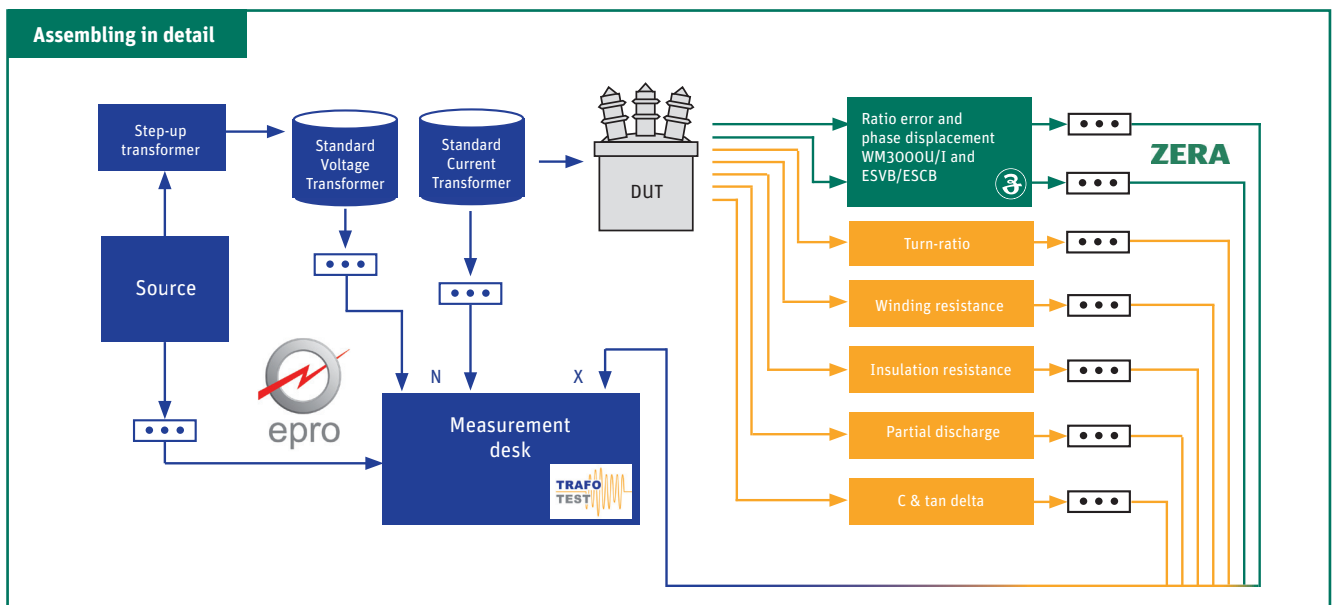
Austrian manufacturer EPRO has developed a complex and powerful system for transformer testing - the *TrafoTest System*. The basic version provides measurements of load losses and no-load losses, induced voltage tests, zero sequences and heat runs. The system is designed in a modular way, additional test can be integrated into the system easily.

ZERA as an experienced manufacturer of instrument transformer testing technology provides the required components for testing instrument transformers. Electronic compensated burdens (ESCB/ESVB200) and measuring bridges (WM3000)

are used for extension of the TrafoTest System in order to test instrument transformers and are integrated into an existing system via communication boxes.

The measuring system will be extended by components for determination of ratio error and phase displacement which enables to perform test procedures for transformers and instrument transformers in only one single location. –

One system. One software. One result.



## EPRO - Transformer Testing

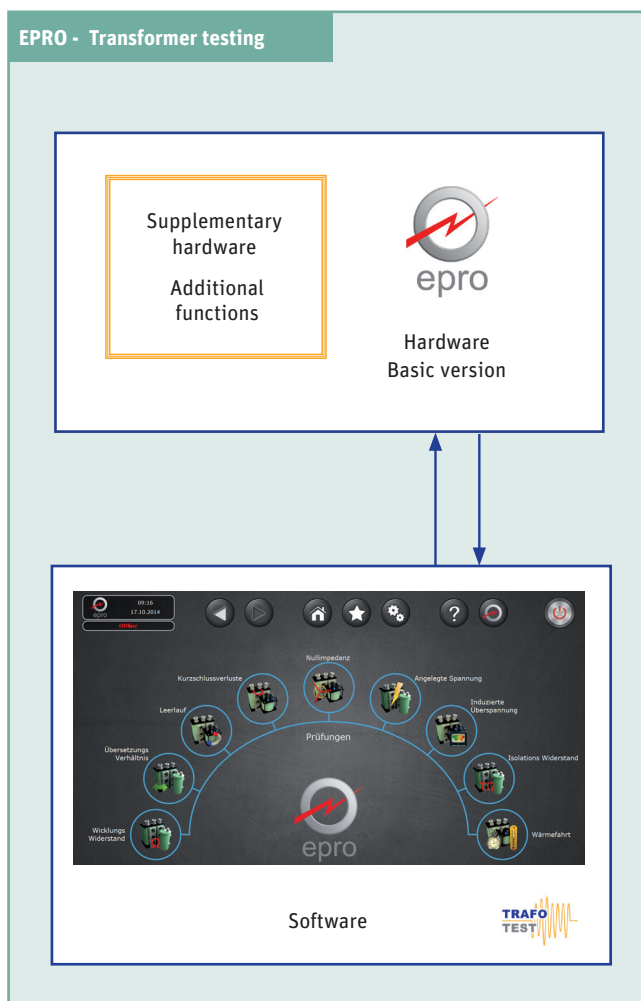
EPRO Gallsbach GmbH develops highly accurate test bay equipment for testing transformers and instrument transformers. For many years the worldwide most accurate inductive standard voltage and current transformers are produced by EPRO.

Long-life cycle, stability and accuracy of the complete product range finds acceptance in test laboratories of manufacturers and official calibration institutes.

The **TrafoTest System** offers a complete test solution for automatic routine testing for transformers provided by the Austrian manufacturer. It is an open system what means that customers requirements can be fulfilled in most of the cases.

Measurements:

- No-load losses
- Load losses
- Induced voltage
- Zero sequence
- Heat run
- Winding resistance
- Isolation resistance
- Further more on request



## ZERA - Instrument Transformer Testing

As developer and manufacturer of systems and components for testing instrument transformers ZERA GmbH supplies customized testing solutions for metrological institutes, universities, testing laboratories of power utilities and instrument transformer manufacturers.

For instrument transformer testing ZERA has developed burdens as well as measuring bridges. The electronic compensated current and voltage burdens ESCB200/ESVB200 serve the load during the test procedure. Starting with the nominal burden and with the corresponding burden steps, the transformer under test will be loaded.

The measuring bridges WM3000U/I are high-precision comparator units for comparing secondary signals from the transformer under test (or digital information of a non-conventional transformers) with a signal supplied by a reference transformer. The error values will be displayed as ratio error and phase displacement on the screen and will be stored in the database.

