Maschinenfabrik Reinhausen GmbH
Falkensteinstrasse 8
93059 Regensburg, Germany

Phone: +49 941 4090-0
Fax: +49 941 4090-7001

TESSA@REINHAUSEN.COM
WWW.REINHAUSEN.COM/TESSA

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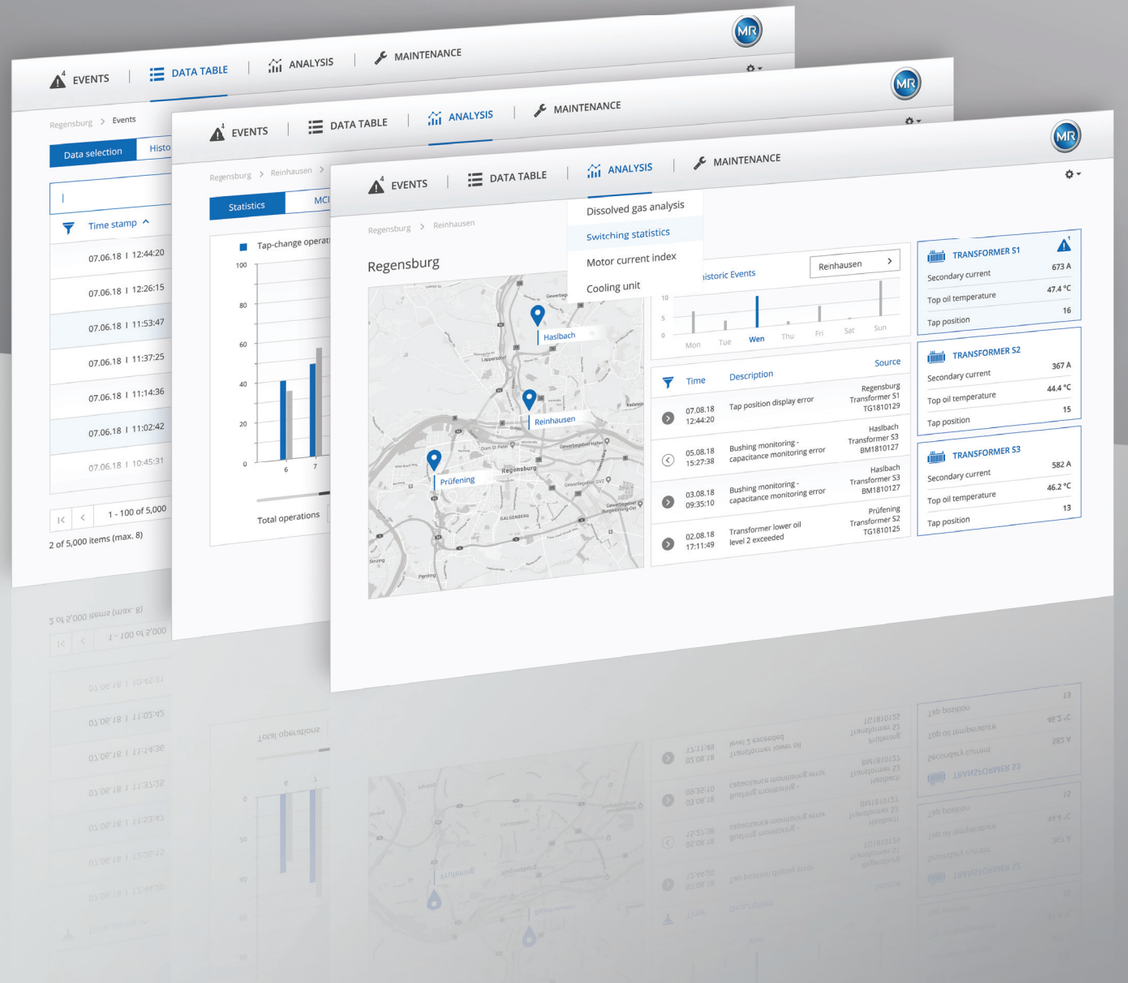
THE POWER BEHIND POWER.

TESSA® FLEET MONITORING

YOUR ASSET FLEET AT A GLANCE, EVERYWHERE, AT ANY TIME

THE SOFTWARE SOLUTION FOR SMART MAINTENANCE



YOUR FLEET SECURELY UNDER CONTROL.

TESSA® Fleet Monitoring for power transformers – Intuitive. Secure. Functional.

TESSA®
Online Monitoring for
Transformer Fleets

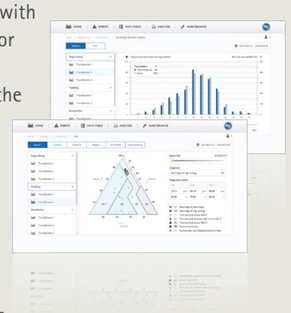
Increased requirements for asset management

The complexity of asset management is increasing rapidly for electrical grids of power generation, transmission and distribution companies, as well as large industrial consumers. New requirements arise from:

- Security of supply
- Volatility in renewable energy sources
- Digitalization
- New regulations
- ISO 55000 standards for maintenance
- Aging power-asset fleets
- Financial pressure

The software solution for intelligent asset management

TESSA® Fleet Monitoring is, together with ETOS® (integrated operation system for power transformers), part of MR's Automation portfolio that enhances the operation and maintenance strategy of your high-voltage transformers. It includes the following functions as a browser application:



- Central data storage
- Visualization and analysis in accordance with industry standards
  - Time-series charts
  - Tap-changer monitoring
  - Gas-in-oil diagnosis
  - Bushing monitoring
  - Cooling-system monitoring
- Events, alarms and trends
- Comprehensive condition assessment

Highest flexibility with highest security

We guarantee a high degree of compatibility with manufacturer-independent, industry-standard sensors for any number of power transformers.
Data is collected separately from your SCADA system with the connection being achieved via the following protocols:

- Control system protocols
  - IEC61850
  - Modbus TCP/IP
  - DNP3.0
  - IEC60870-5-104
- Internet-of-things protocols
  - MQTT

TESSA® Fleet Monitoring is available with **cloud hosting** complying with the latest security standards.

Individual on-site integration is also available on request.

Your advantages at a glance

The use of TESSA® Fleet Monitoring raises your maintenance strategy to a new level:

- **Simple data management** for the implementation of ISO 55000
- **Increased transparency** through globally standardized and recognized analysis functions
- **Maximum operational reliability** using early detection of trends and critical events
- **Cost savings** in maintenance and new asset purchases based on accurate evaluation
- **No additional effort** for IT administration (with cloud solution hosted by MR)
- **Modular system from a single portfolio** with seamless integration of ETOS® and MR sensors