FOCUS ON THE RELEVANT ASSETS AND OPTIMIZE YOUR MAINTENANCE.

The requirements for asset management are constantly increasing. Failure of your critical assets has significant financial, legal and safety implications and creates economic challenges for the customers you serve. Aging transformer fleets, a heterogeneous fleet of manufacturers, years of manufacturing, pre-loads, as well as high-cost pressure, require ever-more precise planning to prevent costly and image-damaging system failures.

A comprehensive and transparent determination of the condition of the equipment is imperative for proactively planning maintenance and required investments as well as carrying out these tasks at the right time. Which equipment data should be collected, and how can economically feasible decisions be reached based on this data?

In TESSA® Asset Performance Management (APM), data collected from both online and offline sources are combined, stored in a central database and displayed on any device with clear, user-friendly responsive designs. Understandable uniform and configurable interpretations allow users to determine the condition of assets automatically while harnessing the power of artificial intelligence and MR’s experts for recommended actionable next steps. These evaluations enable meaningful condition assessments of the operating equipment and form a reliable basis for precise budget and investment planning. As such, they make valuable contribution to implanting ISO 55000 requirements.

TESSA® APM opens a new dimension for economically feasible investment planning and asset maintenance.
TESSA® APM BRINGS THE OFF- AND ONLINE-WORLD TOGETHER.

Developed by us, with you, for you.

Since 1868, our company has been an active leader in the area of power engineering and now consists of 45 subsidiaries and 4 affiliated companies globally. Over the last 5 years, we have expended our resources and expertise in researching and developing innovative technological solutions alongside our customers to empower them to take advantage of the digital age. Our clear focus is to assist you in your daily jobs and recommend actions you can rely on.

TESSA® APM unites a fragmented process into a powerful all-in-one platform that helps you take your asset management to the next level.


Through the powerful combination of your online and offline asset data, TESSA® APM enables the predictive maintenance of your assets while supporting you with the insights and analytics using artificial intelligence to make better decisions.

Modular by design, link different functional elements of your offline and online data sources to access more benefits within the application:
- Your fleet at a glance and the most relevant jobs in the foreground.
- Receive a rich basic package permanently as a FREEMIUM and compile further optional modules for yourself.

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Our Portfolio

**OFFLINE DATA**

- **FLEETSCAN 2D**

**ONLINE DATA**

- **MSENSE®**
- **ETOS®**
ONE APPLICATION. ALL INFORMATION AT HAND.

DASHBOARD & TRANSFORMER DETAILS

All your information where it should be
- Identify where you need to act
- Understand what is happening
- Start your maintenance planning
- Mobile access to alerts, assessments and maintenance information

SERVICE MONITOR

All your OLTCs at a glance
- Understand the service needs and due times of all your OLTCs
- Has a service been done?
- Which OLTCs' services can be combined to save money and time?

ASSET RANKING

Compare the overall health in your fleet
- Gain the overview over the actual health of your assets: one table that clearly shows the assets with need for action
- Understand how the status changed in the past (trend)
ONE APPLICATION. ALL INFORMATION AT HAND.

CONDITION ASSESSMENT (HEALTH INDEX)

Reliable evaluation standards

- Combine various data sources (including offline and online data)
- Configure weighted indices for condition, risks and importance to reflect your asset management philosophy
- Compare to reliable indices defined by MR according to industry standards and expert knowledge

TESSA® FLEETSCAN 2D

Expert condition assessment by MR

- Collect data from visual inspections and offline measurements directly in the field
- Unique condition assessment based on knowledge of MR experts
- Receive clear and prioritized recommendations for service actions
- Perfect for deep assessment and analysis

OIL DIAGNOSIS

In depth analysis for the most critical transformer part

- Gather all data from lab reports
- Flexible trend charts on all relevant categories
- Compare actual values to limits (IEEE, Cigre, individual and more)
- Analyze by industry standards (Duval, Rogers, IEC60599 and more)
ONE APPLICATION. ALL INFORMATION AT HAND.

TESSA® FLEET MONITORING

24/7 online monitoring of success critical assets
- Connect sensors for continuous data transfer or import sensor data manually
- Apply flexible analysis to sensor data
- Detect critical conditions
- Receive automated interpretation of events

Get a deeper continuous understanding of your asset and recognize the trends early.

NOTES

Places your personal observations
- Use a free text-box to note all things which are important to you
- Communicate with your colleagues and exchange ideas

ASSET INTELLIGENCE

From data acquisition to data-based measures
- Use the existing data as simple basic inputs
- Benefit from our unique algorithms and artificial intelligence to get a holistic and automated evaluation (cross-sensor/-equipment)
- Get focused and reliable action recommendations with indications and contra-indications
A USER-STORY TO TELL.

Imagine you are in meeting and you get a call from a colleague: red alert! Something has happened... What to do now?

Remember that you have TESSA® APM! Using your mobile device, you get the first overview about what has occurred at your asset.

In your office, you have a closer look in TESSA® APM on your computer to get a clearer understanding of what has happened. You see a recommendation of what to do and start the service process.

The service technician arrives at the correct substation of the affected transformer with all the right tools on hand.

The service technician reviews the asset issues in his tablet or laptop and performs the defined service actions.

When the service technician has done his job and you are still in the office, you see your asset condition change back to “green” again!

ACCESS TESSA® APM WHEREVER YOU ARE AND WITH ANY DEVICE.
WHAT ARE MY CHALLENGES?

- Cost pressure
- Too much things to work out at the same time
- Urgent trouble shootings
- Get all necessary data

WHAT CAN WE DO FOR YOU?

- Combine online and offline diagnostics, e.g. by interconnection to field devices
- Automate evaluation and recommendation of events with artificial intelligence
- Access long-time expert knowledge and internal experts
- Assess the condition of complete transformer fleet by means of understandable indices
- Avoid failures and operate equipment longer through predictive maintenance planning
- Keep equipment in operation for a longer period of time thanks to knowledge of the actual condition
- Access all relevant data and the appropriate information perspective from any location at any time
- Rely on professional data handling
- Benefit from a modular and configurable solution
- Enjoy great usability based on human-centered-design methodology and proofed by various customers

WHAT ARE YOUR BENEFITS?

- Reduction of OPEX
- Extension of asset life
- Reliability against unplanned outages
- Clear recommendations

CONTACT US AT:
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