

ABB Ability™ Condition Monitoring for switchgear

SWICOM - Reliable asset management



Safety and reliability

- Real time asset health status awareness
- Long time availability of switchgears and circuit breakers



Optimize your maintenance plan

- Minimize planned maintenance shutdowns
- Reduce total costs of ownership by reducing operational costs



Maximize of uptime and productivity

- Avoid unexpected failures
- Optimization of product lifecycle

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01 SWICOM HMI

SWICOM is a monitoring and diagnostic unit which provides mechanical and electrical health status of a fleet lineup of assets. It acquires data communicating with IEC 61850 based protection relays and converts it to diagnostic information. SWICOM can communicate with additional sensors to have further asset information. One SWICOM unit handles a whole switchgear lineup and even up to 24 panels. It can be installed on ABB and non-ABB medium voltage assets.

SWICOM monitors the following variables:

- Operation of the mechanical part: opening and closing times, spring charging time, slipping and failed spring charging attempt, number of operations, idle time
- Remaining life estimation and contact wear
- Ambient temperature and humidity of the installation area
- Temperatures in critical points on primary circuit
- Switchgear Partial discharge using an indicator.

Assets condition is visible on site via a touch HMI. A mobile app provides data via smart devices. Also SCADA connection through Ethernet TCP/IP is possible. SWICOM connects to the ABB Ability Asset Manager cloud-based dashboard showing the asset health status remotely.



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02 SWICOM mobile app

Human Machine Interface

Lineup overview:

- Connected Bay
- Status of every Bay (traffic lights)

Overall status (LED) panel details:

- KPIs (health indexes)
- Measurements and Events

Mobile app

Point to Point secure Wi-Fi connection:

- In front of the panel Wi-Fi enabling
- Single access (security restrictions)

Local files storage

Documents downloading and reading from integrated SD-Card:

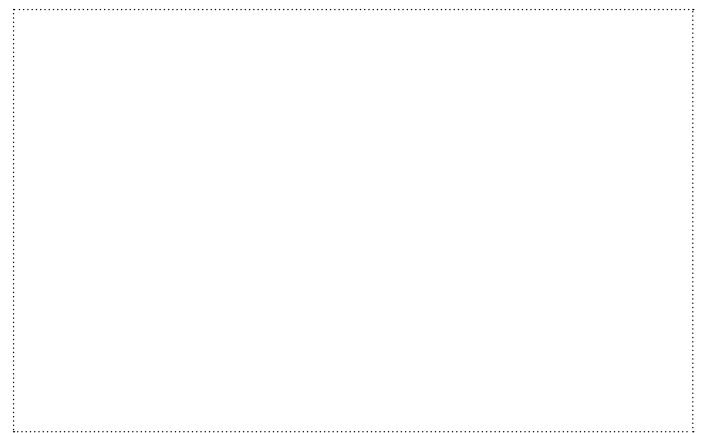
- Drawings
- User manuals
- Movies
- Procedures...

Always available

Also USB powered by PC, mobile, tablet or battery pack:

- HMI and Mobile Application running also without auxiliary supply
- Data and files accessible to users also with hands-on unpowered equipment during maintenance or repair

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For more information please contact:



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More product information:

abb.com/mediumvoltage

abb.com/service

Your contact center:

abb.com/contactcenters

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