Smart devices for smart transformers
Enhanced reliability through condition based maintenance

Nowadays the main challenge of transformer’s industry is to enable a smooth and reliable introduction of smart grid concept at all energy management levels.

Moreover, a large number of the transformers world population is approaching its expected end-of-life thus there is an increased need for better methods to see whether the transformers are still fit for use or need to be refurbished.
Solution
eDevices product family is a comprehensive solution that enables continuous monitoring through 4-20mA and Modbus of the most valuable transformer’s parameters like:
• Air humidity
• Gas accumulation
• Oil level
• Winding and oil temperature
• Internal pressure
• H2 and moisture gas detector

Data aggregator: Core sense+
• Connect and monitor all ABB eDevices (through Modbus connection)
• Connect and monitor third party electronic sensors (through the available standard 3 analog inputs)
• Ethernet output
• No need of dedicated software

Benefits
eDevices represent a smarter, more cost-effective way to manage transformers that enables you to:
• Qualify and prioritize the maintenance and replacement of problematic assets using data intelligence
• Maximize system availability and performance by predicting and avoiding asset failure
• Maintain system reliability with an optimized operations and maintenance budget
• Enhance workforce productivity and safety through targeted maintenance
• Ethernet output

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