Press Release

Safe power distribution for the plant of tomorrow

Reliable availability of electrical power is a prerequisite for a smart plant

Hanover, April 13, 2015 – The smart is more flexible and efficient, which can result in significant productivity improvements with lower costs and reduced resources. ABB, a global leader in power and automation, has a broad portfolio of low voltage products and services for the intelligent plant of tomorrow.

Kai Garrels, head of standards and industry affairs of ABB's Low Voltage Products division, said: "Within the production chain, the focus is on machine and system control. Secure and intelligent power distribution is the prerequisite for realizing the benefits of the Internet of Things, People and Services. ABB offers a complete and harmonized portfolio that addresses these particular requirements. Each individual component contributes with its specific product characteristics for efficient and successful operation of a smart plant."

With various solutions, ABB secures ensures optimum productivity as the following examples demonstrate:

Smissline TP – A hallmark of the connection systems, Smissline TP features a collective alarm function, quick wiring and a flexible configuration as well as replacement of equipment under power. The signal or auxiliary switches can be connected via the signal rails of the Smissline system. This reduces wiring errors and ensures maximum system availability.

Selective main breaker S750 DR – In case of a failure in the final circuit, the S750DR helps to limit the energy flow and thus ensures a continuous supply of the non-faulty parallel circuits.

Multi-channel circuit monitoring system (CMS) – With the space-optimized CMS, the current values can be analyzed in detail. Overload situations are identified before they occur, and preventive measurements can be introduced before it leads to a system shutdown. The CMS is quick and easy to install. The monitoring sensors are easily mechanically secured to the protective devices and are connected via a flat cable connection to the signal processor.

Motor operating and reclosing devices – These create a high availability through active intervention in the power distribution. Integrated signal and auxiliary elements enable the analysis of switching positions. The devices do not require additional space and are very easy to install.

The power distribution of the Smart Plant has additional requirements such as its integration into the existing automation system. This means that the components that need to be replaced or switched should be easy to identify in the automation system. ABB's solution is a surge protection device that coordinates protection with a circuit breaker.

ABB's auxiliary switches are a compact communication solutions that do not require additional space in the panel. They can also save space by being added below which enables the transmission without taking up room on the DIN-rail.

Multiple-use accessories ensure cost reductions in logistics processes. The signal switch S2C-S/H6R, can, for example, be cost-effectively used as a signal or as an auxiliary switch and mounted with circuit breakers as well as residual current circuit breakers alike.

ABB continues to innovate to ensure it maintains its leadership in supporting power and productivity in the plant of the future.

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Photos can be found on the press area of our website www.abb.de.

ABB (www.abb.com) is a leader in power and automation technologies that enable utility, industry, and transport and infrastructure customers to improve performance while lowering environmental impact. The ABB Group of companies operates in roughly 100 countries and employs about 140,000 people.

For help with any technical terms in this release, please go to: www.abb.com/glossary

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