



The new dimension of voltage regulation – TAPCON®

How do I **reliably and safely** regulate the voltage in the grid?

Why TAPCON®?

Digital applications and the decentralized feed-in of energy are major challenges. In addition, there are increasing regulatory requirements and cost pressure. Automatic voltage regulators are an important component in this environment. They make grid operation maximally efficient when they function reliably and safely and can also be operated in a simple and standardized manner.

We offer powerful and modular products for the various challenges in voltage regulation, which can be easily and conveniently adapted to your own situation. In addition to simple control tasks, complex special applications such as three-winding transformers, transformer banks, phase shifters or shunt reactors can also be controlled. The TAPCON® voltage regulators have maximum communication capability and, depending on the type, support the common control station protocols IEC61850, IEC60870-5-101/103, DNP3 and MODBUS. They thus contribute to efficient station automation. For flexible and convenient voltage control.

How does TAPCON® work?

The TAPCON® is used to keep the output voltage of a transformer with on-load tap-changer constant. The TAPCON® compares the transformer's measured voltage with a defined target voltage. The difference between the two represents the control deviation. The parameters of the TAPCON® can be optimally adapted to the behavior of the mains voltage, so that a balanced

control behavior is achieved with a low number of switching operations of the on-load tap-changer. The control behavior can be individually adapted to the specific application with different algorithms – for safe and reliable voltage control.

Your advantages

- Available in different modules, devices and functions depending on the application and transformer
- Exceptional experience (more than 100.000 devices sold for more than 50 years)
- Communication standards such as IEC61850 and DNP3 (Maximum flexibility and security in communication)
- Minimal start-up time due to easy installation
- New, intuitive operation, state-of-the-art graphical display – conveniently operated via web browser
- Central management, updates and upgrades via MR Portal
- Unbeatable reliability and future-proofing
- Maximum operational and data security
- Innovative control algorithms for efficient transformer control with high regenerative grid feed-in: TAPCON® Dynamic Set Point Control (TDSC)
- Integration in ETOS®, the expert at your side for data analysis, evaluation and recommendations for action
- We are there when you need us – global service network MR with 24/7 availability
- Personal support from your local MR Sales representative



→ [More information](#)

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