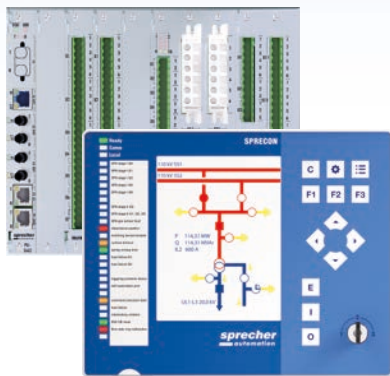




SPRECON[®]

Automation Platform for Energy Stations

TURNKEY SOLUTIONS FOR ENERGY AUTOMATION – NEW SYSTEMS AND RETROFIT

Starting from the idea, we support you with planning and project management to engineering (incl. documentation), manufacturing and FAT to on-site installation and commissioning, and, finally, after sales services.

SPRECON – AUTOMATION PLATFORM FOR ENERGY STATIONS IEC 61850, IEC 60870-5-101/-103/-104, IEC 61131-3, proprietary protocols

POWER SYSTEM PROTECTION

- Protection devices and combined protection & control devices
- Overcurrent-time protection, distance protection, motor protection, transformer differential protection, protection data concentration units
- Earth fault and short circuit direction indicator
- Standard protocols IEC 61850 or IEC 60870-5-103/-104



STATION CONTROL

- Highest modularity and extensive functionalities
- One device for all voltage levels and functions (protection, bay computer, station computer, local I/Os, etc.)
- Highest electromagnetic compatibility (EMC) and direct process interfacing
- Standard protocols IEC 61850 or 60870-5-104 as station bus



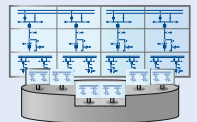
TELECONTROL

- For various supply grids of the energy sector (such as power, gas, water, heating, tunnels, etc.)
- Integration into existing telecontrol networks
- Automation according to IEC 61131-3
- Integrated switch, 101/103/104, Modbus and IP security (encryption)
- Large multi-hierarchical networks with remote diagnosis and remote parameterisation



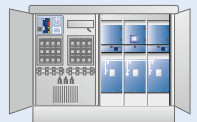
NCC/SCADA SYSTEMS

- Scalable from local HMIs to hot-stand-by redundant, multi-hierarchical and distributed control center systems
- Standard NCC/SCADA functionalities (process pictures, control, trend display, acknowledgeable state list - ALS, operations diary, etc.)
- Sophisticated power system controls (forecasting and power management, topologic colouring and interlocking, etc.)
- Standard protocol IEC 60870-5-104, variety of protocols (SPS, GLT, etc.)



SMART GRIDS

- Turnkey concept for smart control of power grids
- Communication platform for telecontrol and protection, automation, control and power quality, gateway for metering
- Integration of power producers, consumers and suppliers of renewable energy



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