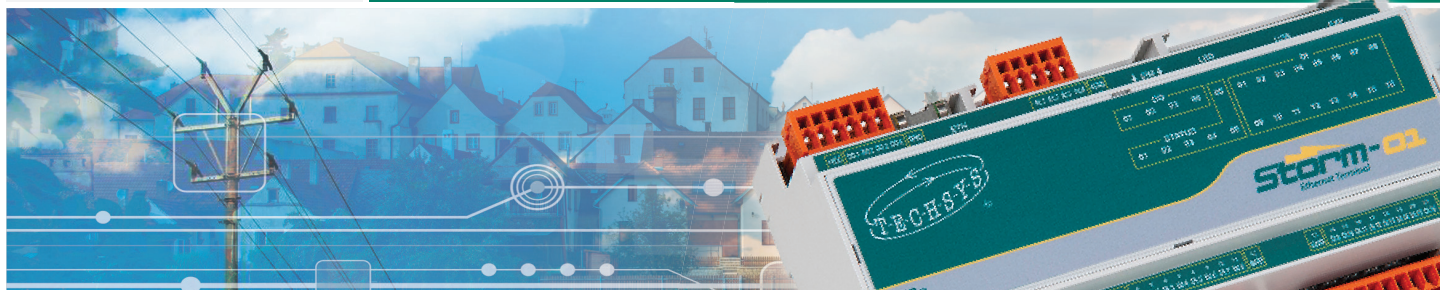




Remote Controlled Switch Disconnecter **Storm**

MV switch disconnector monitoring, control and automation



- **comprehensive functions**
- **compact solution**
- **optimum price**

TECHSYS solution for monitoring, control and automation of pole mounted switch disconnector in outdoor MV grids. A compact solution based on Storm terminals situated in the switch disconnector control cabinet. Monitoring, control and measurement, indication of fault states and fault currents. A highly robust and reliable solution suitable for outdoor grids. Easy and quick installation, low consumption and simple service.

→ Basic Characteristics

- signalling and control of section switch disconnector status, signalling of the status of other equipment
- power grid fault indication and recording
- measurement of base and derived electrical parameters, including through measuring transformers and sensors
- other measurements are possible, for example meteorological parameters (temperature, humidity, sunlight)
- communications interface for serial and network communication and mobile and radio networks facilitates easy integration using standard communication protocols
- powered by a measuring voltage transformer and backup source
- selected statuses and indications are displayed on a local signalling panel
- local and remote parameter setting and diagnostics via supplied SW

→ Properties

Fault Measurement and Indication

- voltage measurement: 3-phase, measuring voltage transformer, voltage sensors – resistive and capacitive dividers



Integrated signalling panel

- voltage measurement on the supply side of a switch disconnector from a 1-phase power or 2-phase measuring voltage transformer
- current measurement: 3-phase, measurement current transformer, current sensors – Rogowski coils
- measured values: phase to ground and phase to phase voltage, phase currents, phase and overall active and reactive power, power factor, frequency
- fault indication with a broad range of functions and parameters: short-circuit and overcurrent (time-dependent or independent, directional or non-directional), earth fault (directional or non-directional) and current asymmetry
- recording and readout of measured values, binary I/O status and internal function status triggered by a change in the value of the defined parameter

Communication

- integrated GPRS/LTE mobile communication, optional GPS receiver module
- can be connected to a digital radio network
- IEC 60870-5-104 communication protocol
- time sync via communication protocol or GPS

Power Supply and Other Functions

- powered by a 1f or 2f measuring transformer connected to the supply side of the LBS
- available with a backup 24 V DC battery
- battery monitoring and management, including deep discharge protection
- temperature measurement and regulation in the switch disconnector control cabinet
- integrated signalling panel, optionally with the ability to connect an external signalling panel

→ Build and Selected Parameters

- supply for installation in the switch disconnector control cabinet
- system dimensions (w x h) 223 x 227 mm
- service temperature -30 to 70 °C
- maximum ambient humidity 95 %, without condensation

