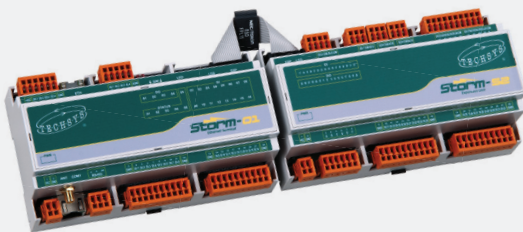


HW Products

→ STORM Modular System

The Storm comprehensive line of products with a broad range of functions for monitoring, control and automatization. A scalable solution, can be configured according to type, scope of use and customer requirements. Base units and a number of extension modules. Analogue inputs, digital inputs and outputs. Digital multifunction converters for measuring electrical quantities in AC networks with indication and protective functions, measurement of DC and AC leakage currents. Serial and network communication interfaces, integrated GSM/GPRS/LTE mobile communication modules, an integrated GPS receiver. An extensive range of standard communication protocols. Universal and special firmware for various application types. Easy integration with other products.



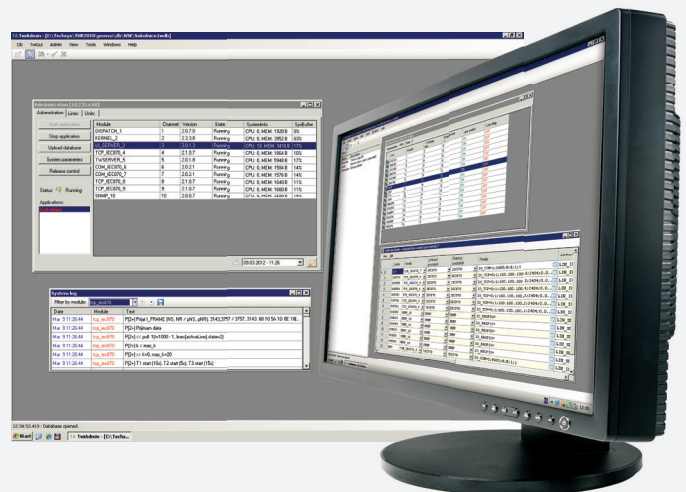
Services

We offer a broad range of services, from custom SW and HW development and design, to delivery including installation and other various services. We provide comprehensive and long-term care for the products and solutions we supply.

Software Products

→ Twister Software

A software platform for Linux and Windows operating systems. Is used to implement monitoring and control systems, data concentrators, communication converters and communication centres. Can be used with visualisation software to create a fully scalable SCADA system.



→ Visualization Clients

Three client types for graphical data presentation from SCADA systems and their SQL databases. The TechSight smart client for Windows and Linux, the WebSight thin client and the MobilSight application for mobile devices.





Applications

→ Monitoring and Diagnostic System

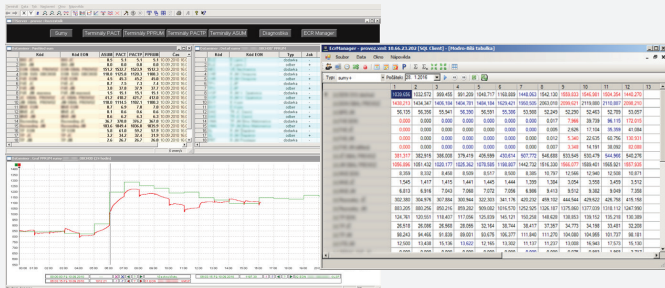
The Monitoring and Diagnostic System is a comprehensive solution for monitoring and diagnosis of hardware and its control systems. Its scope of deployment is universal, including for example hardware monitoring and diagnostics in manufacturing, transport and communication systems, the power industry and the transport of various types of media.

→ Renewable Resource Monitoring and Control

A comprehensive solution for monitoring and control of renewable resource power plants. Makes it possible to meet current requirements of distributors that power plants are equipped with central control facilities making it possible to regulate active and reactive power. Our company is capable of finalizing delivery including arranging and performing testing with central control systems belonging to distribution system operators.

→ Energy Balance System

Comprehensive solutions for the energy industry, industrial enterprises and energy traders. Monitoring, regulating and balance applications for energy consumption and supply. Processing electricity, gas, heat, water and industrial gas measurement. Basic data acquisition and transmission from energy meters to a central system database, processing, visualization, storage. Consumption diagrams, balance functions, consumption or production predictions, accounting calculations, immediate output or current production sums. Daily production reports, data processing for the market regulator and operator, data preparation for invoicing systems. On-line functions, for example regulation of maximum consumption and power factor.



→ Remote Controlled Unit for Load Break Switch

An application for outdoor MV networks based on Storm terminals situated in the load break switch control cabinet. Monitoring and control of elements and measurement of the load break switch. Indication of fault states and fault currents. Highly durable, easy and quick installation, low consumption and simple service.

→ Distribution Substation Monitoring, Control and Automation

This modular solution based on Storm terminals allows for flexible configuration and layout. Monitoring and control of elements, measurement in distribution substations. Indication of fault states and fault currents.

The ability to use both traditional and modern measuring methods, instrument transformers and measuring sensors (Rogowski coils, Hall probes).

→ HV and MV Substation Monitoring and Control System

A traditional as well as modern configuration design for control systems in substations. Central and distributed solutions, communication via an IEC 61850 substation bus, connection of protection devices from traditional manufacturers. Functions as a local SCADA workstation, communication with higher-order control systems.

→ Transformer and Choke Monitoring System

Monitoring of power transformers and chokes in transmission and distribution networks, power station block transformers or industrial transformers (for example for smelting operations). Fundamentally improves their safety, reliability, and efficiency. The monitoring system includes software for monitoring, processing, and visualizing the operating characteristics of transformers, including on-line data acquisition and transfer. Integration of a number of special devices - dissolved gas content analyzers, sensors for the direct measurement of winding and oil temperature, monitoring of high-voltage bushings.



→ Data Concentrator

Intended for data acquisition, transfer and processing. A broad range of uses thanks to support for various communication standards in the area of technology control in the energy industry and other industries, measuring energy and other media and exchanging data with database systems. Implementation of current security standards.

→ Protocol Converter

Converts various types of standard and proprietary communication protocols. Makes it possible to create interfaces between systems from various suppliers.

→ Energy and Media Measurement

Obtains consumption data from electricity meters, can also be used to measure consumption of other forms of energy (heat) or media (gas, water, etc.). Acquisition of data from pulse output meters and its transmission for further processing. Values of energy or power are transmitted via the selected communication protocol. Provides a permanent overview of energy or media consumption. Part of balance systems. Is used in the Smart Metering concept.

Customers: Power Utilities (DSO, TSO), Renewable Energy Resources, Energy Traders, Industrial and Transporting Companies, Communication Operators

