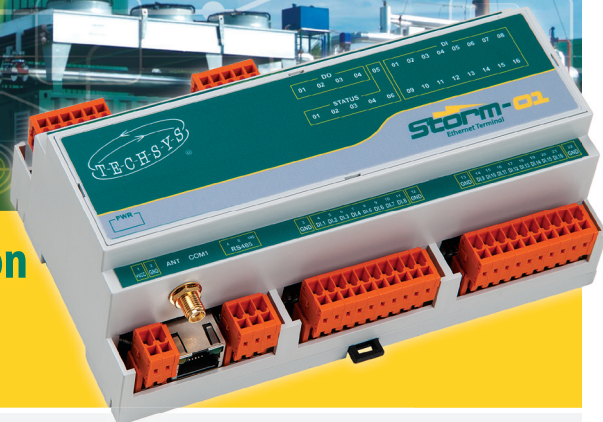




Renewable Resource Control

Indispensable equipment for power plants



- **prescribed functions with optional extension**
- **highly reliable and affordable**
- **quick turnaround and turnkey delivery**

Comprehensive solution for monitoring and managing renewable resource power plants. Our solution is based around functions that make 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 (DSO).

→ Basic Characteristics

- delivery including commissioning and arranging and performing tests with DSO
- reliable, complete and proven solution using the Storm-01 terminal
- adaptation of terminal configuration and functions to the customer's specific requirements
- delivery of separate terminal modules for installation into existing distribution switchboards, or completely equipped distribution switchboards
- extensive functional integration making it possible to simplify distribution switchboard design and minimize cost and installation time
- appropriate functions facilitating regulation of U and Q as required
- simultaneous delivery of data to the DSO's central control system and the power plant operator's monitoring system
- optional delivery of related instrumentation including meteorological sensors, measuring converters and other instruments



→ Typical Use

- central control, remote control and measurement of renewable resource power plants
- remote regulation of power plant active and reactive power and voltage through the DSO's central control systems.

→ Properties

- data collection as per the distributor's requirements and transmission via a GSM/GPRS network using the IEC 60870-5-104 communication protocol
- processing of the distributor's commands transmitted via GPRS for backup control of the power plant's active power
- open architecture ready to meet future requirements of distributors
- three-phase measurement of P, Q, U and I using a precise measuring converter
- measurement of meteorological parameters - outside temperature, sunlight, wind speed and direction
- simple circuit-based solution with a minimum number of supplementary external circuits



→ Also Available

- addition of newly requested functions to previously delivered technology
- consulting and technical support for project organizations, contractors and system integrators
- significant quantity discounts
- short delivery periods
- various types and scope of service for delivered units, warranty extension, equipment refurbishment and renewal

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