



# Monitoring and Diagnostic System

Comprehensive hardware and system administration, diagnostics and maintenance solution



- **modular solution**
- **scalable configuration**
- **universal application**



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

## → Basic Characteristics

- collects and processes data from diagnostic detectors and sensors
- integration of various detector and sensor types
- integration of various terminal and converter technologies
- easy and simple implementation of HW and system models
- extensive library of HW models
- integration of existing monitoring and diagnostic systems
- various versions of configuration hierarchies
- number of various communication protocols
- simple connection to database systems
- support for hierarchical user access
- external user access is possible
- integrated administration, diagnostics and maintenance system
- can be supplied as a complete hardware and software package, just software or software as a service
- broad range of related services and warranty/post-warranty care
- can also be delivered as an OEM solution for manufacturers and integrators

## → Typical Use

- monitoring and diagnostic system for machines, systems or production lines
- monitoring system for power generation systems
- monitoring system for electrical machines
- monitoring milling and shaping centres
- local monitoring and diagnostics system for workshops, plants, branches or distribution/communication nodes
- central monitoring system (enterprise solution)

## → Properties

### Communication

- broad range of serial and network communication types
- standard security, support for "cyber security" standards
- support for wireless and mobile communications, integrated GPS functions
- serial and network communication protocols as per power generation and industry standards

### Data Processing and Display

- basic processing of data from various protocol types
- on-line and batch processing of data, processing and providing data to/from external systems
- comprehensive short, medium and long-term data storage system
- support for communication with central data warehouses
- extensive data display system in a fully graphical visualization client environment, on-line schematics, tables, graphs and combinations thereof
- simultaneous display of all types of data being processed, along with data from archives and external systems, all in one place
- multiplatform client applications a smart client (Linux or Windows), a thin client (web browser) and a mobile client (Android, iOS)
- ability to implement customer requests for data communication, processing and display
- optical and acoustical alarm outputs, support for wireless alarm delivery systems (SMS, pager)



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