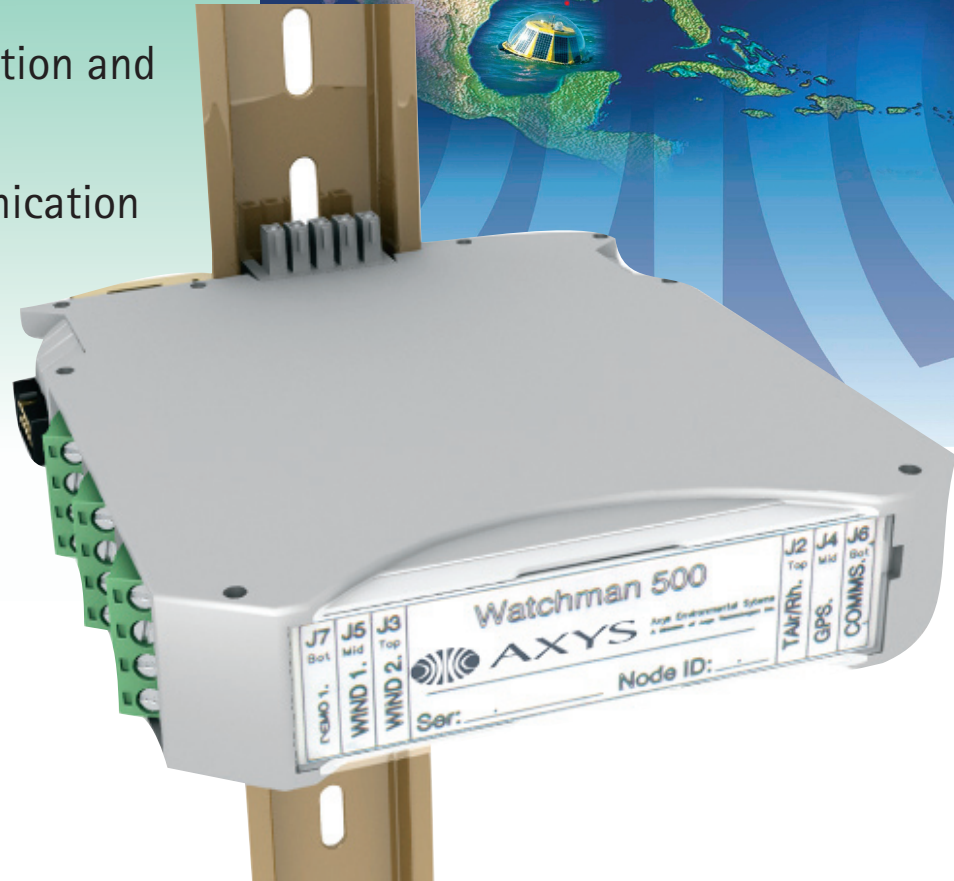


WATCHMAN500™ NETWORK SOLUTION

FEATURES & BENEFITS:

- Open architecture system
- Accepts any sensor
- Supports variety of telemetry options
- Remote configuration and diagnostics
- Two-way communication



Complete management and customization of a network

WATCHMAN500™ NETWORK SOLUTION

A single, expandable, reliable data collection and dissemination system

The Watchman500™ Network Solution is used wherever monitoring and data acquisition is required. This platform is the ideal solution for any application requiring environmental and meteorological data monitoring, collection, control, processing, or remote system management.

The two major components of the Watchman500™ Network Solution are:

- Watchman500™ Module
- Data Management System (DMS)

The Watchman500 module interfaces with custom or commercial off-the-shelf sensors, equipment, software, and telemetry, making it a truly open architecture system from both a software and hardware point of view. The system accepts sensors from virtually any manufacturer and is easily configured using Data Management Software (DMS) with standard MS Windows or Hyper-terminal software.

Data messages are tailored to meet custom requirements, and are easily imported into a SQL database, allowing users to view important sensor information in virtual real time.

WATCHMAN500™

The Watchman500™ is an intelligent, configurable, expandable, sensor I/O platform with two-way communications. Designed for deployment in any location, the Watchman500™ is ideal for long-term operations in rugged environments. The Watchman500™ consists of a multiple access communication bus with one 'master' module and up to 127 'slave' modules. Up to 30 sensors can be connected into each module. The master module collates the sensor data from all modules and processes it into a report, which is then sent to the host in a variety of possible formats. Supported telemetry options include VHF, cellular (GPRS/CDMA) and satellite transmission, landline phone, serial interface, and TCP/IP Ethernet.

Data Management System

The Data Management System (DMS) performs six main functions:

- Communications management
- Watchman500™ station configuration and management
- Data Collection to a DBMS (Database Management System)
- Data Collection to a Text file Database Management System
- Data dissemination (DBMS, serial, TCP/IP etc)
- Metadata management

The DMS can manage all Watchman500™ stations in the network while simultaneously collecting data messages from each of them.

Communication Management

Each Watchman500™ station managed by the DMS has an associated communications profile. Furthermore, every communications medium has a set of configurable parameters that allow the user to customize the behavior of the communications channel.

The following elements can be customized to best fit the data needs of an organization

- Station Configuration
- Data Message Configuration (output message formats)
- Data Collection/Storage
- Multiple Data Broadcast Pipelines

AXYS offers several versions of the DMS software to meet a variety of user needs. The full version of the DMS allows for complete management and customization of a Watchman500™ network or individual station.

The Configurator version allows for individual station command and control and is suited for technicians working on a specific station in the field.

The flexibility of the Watchman500™ Network Solution allows it to be tailored to the needs of each monitoring network to ensure the data requirements of an organization are met, while allowing future expansion capability.

DMS System Requirements

The following are the minimum requirements for running the DMS software.

DMS Computer:

PC with minimum Intel P3 600 or comparable

256 MB RAM Minimum (512 recommended)

Minimum 200 MB Hard Disk space available, more depending on network, data quantities and database locations

OS: English Windows NT 4 SP 6, Windows 2000 SP2, Windows XP SP2; Windows 2003 Server

Microsoft .Net Framework 1.1 (comes with installation software)

*Communications Hardware using serial, TCP/IP, modem etc may be required depending on telemetry & network configuration

Database (DBMS):

The DMS uses Microsoft SQL Server 2000 or Microsoft Desktop Engine as a database. The database can be hosted on the client computer or any computer in the network. The following is a list of requirements for the database server:

PC

Minimum 600 MHz Processor

256 MB RAM Minimum (512 recommended)

Hard Disk:

MSDE: Min. 44 MB for software recommended 2 GB+ for data storage

SQL Server 2000: Min. 200 MB for software 2GB+ for data storage



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