



NSX-10 LONWORKS® NETSERVER

The NSX-10 NETSERVER provides seamless, reliable and secure connectivity of LONWORKS® control networks to any corporate IP (Internet Protocol) data network or the Internet. This enables total control of any LONWORKS device from wherever you maybe in the world and real-time dynamic update of data from the devices connected via a standard Web browser, all at an affordable price.

As the Internet becomes more accessible to smaller businesses and the home, owners wish to maximise the usage of this data link for multiple applications. The NETSERVER facilitates this need, enabling real-time monitoring and control via the Internet or corporate network for both small and large control applications.

By combining the power of IP based data networks with control networks, high speed wide area networks can be implemented in the smallest facilities. In markets where LONWORKS technology has been adopted, this is creating wider monitoring and controlling possibilities than have been commercially viable in the past. The NETSERVER facilitates new market opportunities for this powerful combination of data and control technology.

Built-in Web Server

The built-in Web Server, allows Web pages to be served directly to your Web browser, without the need for a dedicated graphical user interface. Through the implementation of 'Java' real-time automatic update of any network variable in the Web Browser, is a standard feature. This also gives a greater level of security between the host application

and the control network, while utilising the Internet as a communications media.

The universal access that a built in Web Server provides can bring many benefits to control applications. With access to the control network available globally, remote monitoring, diagnostics and support through the Internet or corporate data networks is now possible.

Event driven e-mail

The NETSERVER will generate e-mail messages based on predefined alarm or event criteria. This allows alarm monitoring, security alerts and important maintenance information to be reported with enough associated data for decisions to be taken on the actions necessary. This provides you with total control of your facilities, (residential or business). With e-mail access now available through mobile phone, notebook and TV, but to name a few, you can always be in touch no matter where you are.

Applications

The NETSERVER is able to facilitate a wide variety of control and monitoring applications:

- Manage and maintain your small commercial building via the internet, using a standard Web Browser
- Report breakdowns and alarms via e-mail to service engineers on the move.
- Allow remote access of your facility to a bureau or third party maintenance company.
- Set-up, configuration and diagnostics of remote sites.



Features

- E-mail Alarms based on Event
- Data Logging
- Time Scheduling
- Direct I/O Port for Alarms, Meters or Temperature Sensors
- 10BaseT or Modem Connection
- Real-time automatic update of any network variable
- Viewed through standard browsers such as Internet Explorer™ or NetScape Communicator™
- LNS™ Plug-in to Configure
- Altitude Pilot included to develop Web Pages
- Scalability through the addition of an NSX-1000 to the network



Time Scheduling

The NSX-10 now incorporates 16 time channels which can switch most NV types. This enables setpoints to be changed based on time of day, without the need for complex code to be written in the application controller. Configuration of the 4 On/Off times per day is done through the Web Browser, with access to simple graphical calendars to aid configuration. Holidays can also be programmed in the same manner.

Data Logging

Tabular and graphical charts can be served up to the Web Browser showing historical data logs for a wide variety of applications. Configurable logging interval and channels are part of the standard product.

I/O Port

The direct I/O port on the NSX-10 allows up to 4 digital or pulsed inputs to be connected, making this an ideal product for remote metering applications. One of the 4 inputs can be configured as a

digital temperature sensor bus, enabling up to 4 digital temperature sensors to be connected directly to this single input.

NSX-1000 Driver

The NSX-1000 Driver enables lots of small sites to be connected via a Corporate Intranet or the Internet using the NSX-10's and managed through a single or multiple NSX-1000's. The added benefit of this architecture is high capacity data logging, more comprehensive applications and common view to multiple sites.

Specification



NSX-10 NETSERVER

Memory	<ul style="list-style-type: none"> ▶ 512K Flash ▶ Up to 1MB of Non-volatile user memory for Web pages and User Data
Transceiver Type	▶ TP/FTT-10A
Service Pin Function	▶ Recessed service switch and LED
Power Supply	▶ 10-24V AC/DC
Power Connector	▶ Weidmuller 2-Conductor SLA 2/90
LONWORKS® Twisted Pair Connector	▶ Weidmuller 2-Conductor SLA 2/90
Supported Number of Network Variables	▶ 62
Standard Internetworking Protocols	▶ SMTP, TCP/IP, DHCP, HTTP, FTP
Ethernet Interface	▶ 10BaseT
Ethernet Connector	▶ RJ-45
Serial Port	▶ RS-232, 115200 Baud (8 data bits, no parity, 1 stop bit)
Console Connector	▶ DB-9
Status LED's	▶ Power, Service, 10BaseT Connection, CPU, 10BaseT RX/TX
Clock	▶ Real Time, Battery Backed
Expansion Bus	▶ I ² C
Mounting	<ul style="list-style-type: none"> ▶ Desk Mount (rubber feet included) ▶ Panel Mount (L-Brackets optional extra)
Dimensions	▶ H164 x W109 x D30mm
Operating Temperature	▶ 0° to +50°C
EMI	▶ CE / EN55022 / EN61000-4