



**DISTECH**  
CONTROLS™

**LONWORKS® Open Building  
Automation Solution**

Distech Controls has taken a unique approach in developing LONWORKS® solutions for the building automation industry. Based on the inherent values of LONWORKS protocol and design, our LONWORKS engineering tools allow for a fully open and flexible control system providing interoperability, robust technology and faster implementation. Our LONWORKS tools solve the complexities of many LONWORKS systems by providing intuitive, state-of-the-art LNS® based solutions. The easyCONTROLS LONWORKS tools are rich in features and functionality while providing a user-friendly interface, promoting advanced applications and time and cost savings for integrators and end-users alike.



### Lonwatcher 3

The Lonwatcher 3 network management provides integrators with advanced features and all the resources necessary to install, operate and manage LONWORKS networks. Lonwatcher 3 introduces a straightforward interface for LONWORKS networks, allowing simple visualization and documentation of the control system's logic.

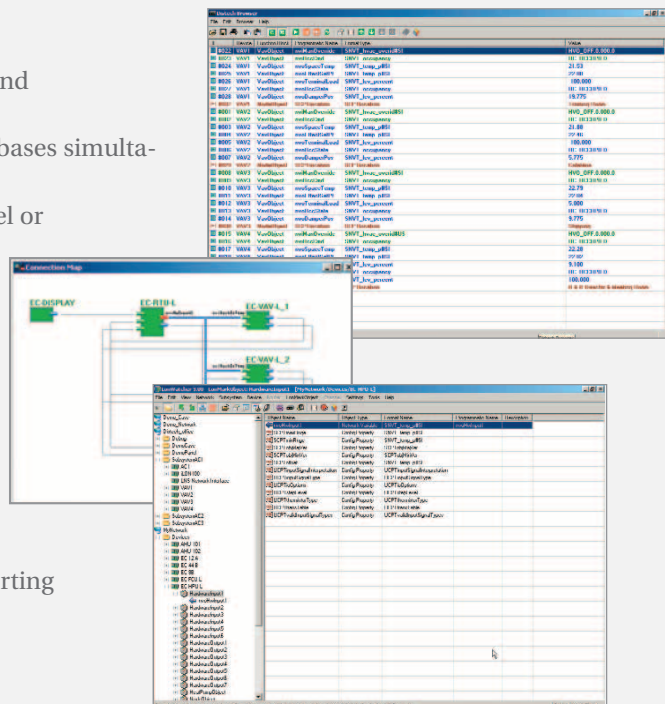
Lonwatcher 3 supports all LONMARK features such as standard functional profiles, configuration properties, resource files, standard and dynamic network variables and changeable types.

Based on the LNS TURBO Edition network operating system, Lonwatcher 3 is a performance-driven, high-speed application, allowing a fast response time from the application and increasing user productivity. Lonwatcher 3 is a tree-view oriented program, promoting a user-friendly interface and intuitive navigation through the network, regardless of the amount of devices. Through context sensitive menus and dynamically enabled toolbars, all device, channel, subsystem, functional object and network variable operations can be easily set-up and maintained.

Lonwatcher 3 offers multiple applications such as the Binding Manager, and the Distech Controls Browser. The Binding Manager is designed to easily create network connections using a network variables filter which quickly determines which network variables are compatible. Once completed it produces a graphical map of the bindings. The Distech Controls Browser is an engineering and monitoring tool used to monitor network variables and configuration property values during operation, allowing for fast and easy troubleshooting and commissioning.

### Lonwatcher 3 additional features :

- A LONWORKS network and device manager
- Enhanced user productivity through batch and one-click operations
- Management of multiple networks and databases simultaneously
- Network explorer options: explore by channel or subsystem, comprehensive property view and navigation down to network variables and configuration properties
- Host-based node support and creation of dynamic network variables
- Easily create and manage channels and routers, repeaters and bridges
- Device/object level diagnostics and tests
- Ability to work offsite by using remote client modes
- Complete user management features, supporting multiple user profiles
- A MiniDirector for Lonwatcher providing independent launching of LNS plug-ins
- Supports Niagara Framework™ tunneling

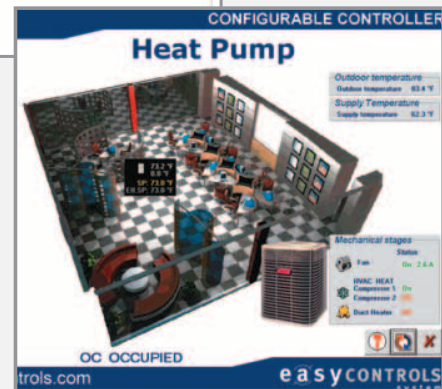




## Londisplay 3 Package

Londisplay is an advanced LNS based GUI package including a graphical interface builder, an Alarm Manager, Trend and Log Manager and User Manager. It is designed for both local access and control of a LNS based system and for remote access and control via the internet or dial up phone lines.

The Londisplay GUI allows you to create a custom and interactive visual interface for your building automation projects. Easily create a comprehensive graphical environment of the facility from top-level site plans to equipment details, adding menus, animations, text boxes, and navigation buttons within graphics pages. Londisplay also gives the ability to display and interact with network data points and information and launch any LNS based plug-ins directly from the application. Using a standard Windows® interface, Londisplay significantly reduces engineering time and costs, offering true drag and drop design functionality from a toolbox, as well as multiple copy-paste options. Londisplay's graphics pages are modifiable with common text editors or human readable files, supporting quick and easy modification of graphics and annotations.



The Alarm Manager is designed to notify you of issues in your LONWORKS network, in real-time, from any LONWORKS based controller. In addition to detecting standard alarm conditions for devices, it allows you to specify which device conditions will trigger alarms, as you can specify alarm conditions with respect to one or more defined constants, configuration properties and network data points, using logic operators. Along with defining conditions, the Alarm Manager allows you to set and assign a severity level to different triggers. The Alarm Manager also provides you with full control of the notification process. You can choose to send notification by email, numeric pager, fax, printer or local PC, to one person or a group of people. It is also possible to set-up notification schedules so only individuals on active duty are notified of an alarm. Users can acknowledge alarms and append remarks, while all audit logs of user actions are stored in the alarm history log.



The Londisplay Trend and Log Manager allows you to map any network variable through the free programmable controllers, for historical and real-time trending. Logging conditions include differential, variations by specified amount and configurable time basis. The logs and trends are displayed through a customizable graphical interface, with options for displaying one or multiple logs, and can be exported to both Excel® or Access® formats.

Londisplay and Lonwatcher both feature an advanced User Manager module, which allows you to set different user groups and assign specific permissions. User groups can be set according to administrator, programmer, power user, user or guest levels and permissions are granted for read, write and different levels of access. You can determine which users can configure, view and acknowledge the alarms and command configuration, browsing and monitoring.



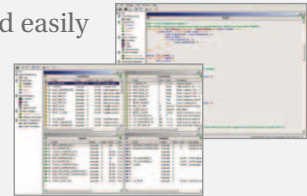
## Distech Controls LNS Based Plug-ins

Unique in the industry, our LNS based plug-ins are available for programming, configuration and monitoring of the easyCONTROLS devices. These easy to use tools provide for significant savings in time in engineering or troubleshooting. Central to our truly open product offering, the plug-ins can be launched from any LNS based network management tool or GUI, and are available free of charge.

## The EC-Program Plug-ins

For use with the easyCONTROLS LONMARK certified free programmable controllers, the EC-Program plug-ins combine a visual interface with the power and flexibility of a code editor and compiler. Through this unique combination of built-in functions and graphical user interface, the plug-ins offer the very best in modular control programming.

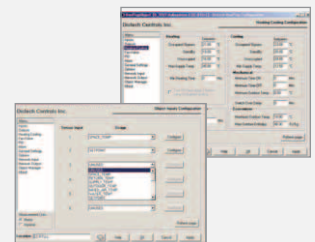
- Code is easily written using logic comparators, mathematical operators, and easily configurable built-in functions (such as timers, control loops, etc...)
- Controller codes can be backed-up on the PC and the controller itself, giving users the possibility of recovering the code from multiple sources
- Allows you to easily change the network variable types
- A code library is provided



## The EC-Configure Plug-ins

The EC-Configure plug-ins offer step-by-step simplified configuration of the easyCONTROLS LONMARK certified configurable controllers, the EC-STAT line and special application controllers. Through a series of screens and forms, you can easily configure a multitude of parameters, such as:

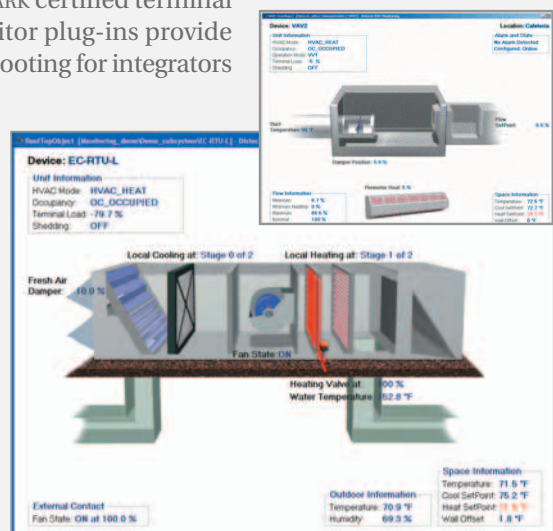
- inputs and outputs
- heating, cooling and fan settings
- alarm conditions
- PID parameters
- network variable settings
- wireless communication options.



## The EC-Monitor Plug-ins

A truly unique LNS software, the EC-Monitor plug-ins automatically generate high quality, animated graphics, for real-time monitoring of the easyCONTROLS LONMARK certified terminal unit controllers. A user-friendly visual interface, the EC-Monitor plug-ins provide ease of usage and simplified device management and troubleshooting for integrators and end-users alike.

- View the actual performance (temperature, pressure, humidity) and state of your device in real-time with graphics that are automatically generated and dynamically adapt to the configurations of the device as well as the values being monitored.
- Graphics are automatically generated during configuration of the device, using data entered in the EC-Configure plug-in.
- Menus within the graphics page allow you to refresh the device configuration, set monitoring and polling options and view logged errors.
- Offer end-users consistent, high-quality monitoring graphics.



## LONWORKS Web Connectivity Products

Distech Controls also offers Web connectivity products to seamlessly link together control and data-networking standards and connect products and networks to the Internet.

# System Overview

## LONWORKS Network Architecture



Engineering Tools :  
Lonwatcher and LNS plug-ins  
Graphical User Interface :  
Londisplay

Web Browser options such as i.LON 100



Wireless



Other LONWORKS devices

# Building Open Control Products

For more information concerning  
Distech Controls' building automation system :

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system



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