

SIGNAL

SIGNAL for Windows® XP

SIGNAL for Windows XP is an integrated graphical user interface for Invensys Energy Solutions' NETWORK 8000® Building Automation System, MicroSmart™ Control Network (MCN), and Digital Management System (DMS). Designed to be compatible with Microsoft® Windows XP, its operational features are intuitive to the casual user. In addition, SIGNAL for Windows XP has a graphical Control Panel program that is one of the most advanced menuing systems available today. All software applications have the same look and feel as other Windows based programs. Icon selection of user programs, such as monitoring, simplifies task selection. Pull-down menus with highlighted active commands and fill-in-the-blank data entry templates provide easy-to-use control functions for everyone. A standard mouse interface allows point and click operation, eliminating the need to learn complicated keystrokes to perform simple commands.

Applications

SIGNAL for Windows XP has been designed as a sophisticated, yet easy-to-use, graphical user interface that is fully compatible with the NETWORK 8000, MCN, and DMS families of facility management controls. This user interface is used to manage all the day-to-day operations of running a building's environmental control equipment including monitoring equipment status, reporting and storing alarm conditions, storing historical energy and equipment performance data, equipment scheduling, and much more. To help operations personnel manage the wealth of information available, powerful reporting features are available for creating custom reports of meaningful and concise information.

Systems Connectivity

SIGNAL for Windows XP connects via an industry standard RS-232 communications port to Invensys Energy Solutions building automation systems. This includes the NETWORK 8000, MCN, and DMS systems.



Features —

- Customizable Control Panels for each user provide the most flexible menuing system available.
- Interactive process graphics permit users to view and understand system operations at a glance.
- Sophisticated alarm/exception processing subsystem ensures immediate reporting of all system conditions.
- Real time and historical trend graphic displays make it simple to view current system operation at a glance.
- Calendar program provides the means to quickly view, edit, or override your system's time schedules.
- Advanced user access security provides building managers with powerful tools to program privileges for individual operators.
- Microsoft Windows compliance allows concurrent operation of other Windows products and applications.



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Table-1 Model Chart.

Model	Graphics Package
SIG-80301-XP	20 Screens
SIG-80302-XP	9000 Screens

Hardware Specifications

PC requirements for Windows XP Professional.

Microprocessor 233 MHz minimum required processor clock speed (300 MHz recommended); Intel Pentium/Celeron family, or AMD K6/Athlon/Duron family, or compatible processor.

Memory 128 megabytes of RAM or higher is recommended.

Hard Disk Space 1.5 gigabytes of available hard disk space.

Video Super VGA (800 x 600) or higher-resolution video adapter and monitor.

Disk Drives 3-1/2 inch high density floppy drive.

Optical Drive CD-ROM or DVD drive.

Software Specifications

Control Panel The Control Panel is easily configurable and customizable to each user. Control Panels can be linked, allowing unlimited "pages" of menus. The Control Panel can be used as the entry point to all SIGNAL for Windows XP applications and virtually any Windows applications.

Dynamic Graphics With SIGNAL for Windows XP's powerful dynamic graphic program, system information is displayed in formats that are the most understandable and appropriate for your facility. Up to 128 dynamic data fields of any combination can be displayed on one screen with no limitation to the number of screen links. The quantity of graphic screens is limited only by the model (option) of SIGNAL for Windows XP selected, and the available disk space. Data values may be displayed in many different formats. Text styles, font, and color are all user selectable. Discrete movement animation is available, and a standard library of drawing templates is included with every system.

Hot Links Any component or piece of equipment depicted on the graphic screen can be "hot linked" to a file containing information about the item. This can be diagrammatic "cut-away" or "exploded" detailed views, sequences of operation, troubleshooting guides, or operation and preventive maintenance information. This information is then readily available for display by simply pointing and clicking at the component or piece of equipment.

Report Generator All standard report categories are plainly presented. Using predefined report formats, any of SIGNAL for Windows XP's databases can be accessed for hard copy printout or screen display. Standard or custom reports can be transferred to any Windows based word processor or spread sheet program, allowing you the freedom to work with the data in an environment most familiar and comfortable for you.

Calendar The Calendar program provides the means to easily view, edit, or override your system's time schedules. Any number of calendars may be set up with up to 20 schedules per calendar. Any or all of the 20 schedules may be viewed or overridden at one time. Standard schedules and event overrides are all viewed on the same screen, making it easy to understand the current status of any schedule.

Trend Manager Trend Manager supports the collection of panel resident and non-panel resident trends for display in report or chart format. Up to four charts, with 16 points each, can be displayed at any one time. This information can be either historical or real time.

Alarm Handler When an alarm occurs, a powerful, easy-to-use alarm handler "pops up" over the top of any application currently running. Specific graphic screens and trend charts can also be defined to automatically display upon the occurrence of an associated alarm.

Exception Handler Functionally similar to the Alarm Handler, the Exception Handler "pops up" over the top of any application currently running, to notify the operator of an exception. The Exception Handler manages all exceptions and messages generated by panels and SIGNAL for Windows XP, that are not defined as an Alarm in the Project Manager.

Administration Administration provides the industry's most straightforward and secure method for defining user security privileges. With SIGNAL for Windows XP, each application's associated functions can be enabled or disabled for each user.

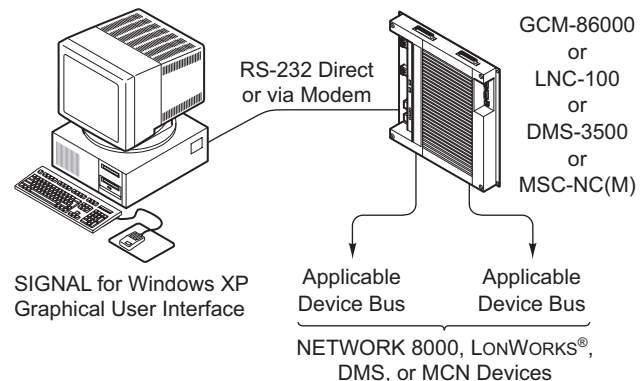


Figure-1 SIGNAL for Windows XP System Architecture.

All specifications are nominal and may change as design improvements are introduced. Invensys Energy Solutions shall not be liable for damages resulting from misapplication or misuse of its products.

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