Catalyst Pro Data Sheet

Catalyst Pro is a Microsoft Windows based graphical user interface to building automation and process control devices.

Features:
- Monitor and control all aspects of your system in real time using over 30 meters, gauges, switches and buttons.
- Easily change setpoints and schedules.
- Collect and display historical data.
- Collect and manage alarms.
- Accumulate, report and alarm equipment run-time hours.
- Backup and restore system memory (with devices that support these features).
- Maintain a system log so you always know who changed what, and when it was changed.

Supported Devices:
- Andover Controls (AC8/AC256/Infinity/Continuum)
- LonWorks (using an Echelon PCCx, PCLTAxx or SLTAx interface)
- BACnet (PTP and B/IP protocols)
- ModBus (RTU and ASCII)
- Intelligent Lighting Controls (Quantra Panels)
- Virtually any other devices using third-party OPC Servers (Data Access 2.0)

Sites:
- Maintain a virtually unlimited number of sites.
- Supported connection types:
    - Andover – RS-232 (direct connection or modem).
    - LonWorks – All transceiver types.
    - BACnet PTP – RS-232 (direct connection or modem).
    - BACnet/IP – TCP/IP network.
    - ModBus – RS-232 (direct connection or modem) or RS-485
    - Intelligent Lighting Controls – RS-232 (direct connection or modem) or RS-485.
    - OPC – Connection type is determined by the third-party driver.
- Sites may be grouped by region, customer, type of job or any other way you choose.
- Supports multiple simultaneous connections.

Graphic Displays:
- Supports a virtually unlimited number of displays for each site.
- Displays may be grouped by floor, type or any other way you choose.
- Displays may contain multiple color pictures or drawings.
- Built-in library of over 4,000 graphic symbols (fans, pumps, ducts, etc.).
- Most common Windows picture formats supported (Bmp, Jpg, Gif, etc.).
- Each display may contain analog or digital meters, knobs, switches, etc. for system monitoring or control.
- Link on-screen buttons to view other displays, historical data and schedules or to execute Visual Basic Script commands.
- If connected to multiple sites, points from all sites may be freely mixed on displays.
- View several displays simultaneously.
- Andover Infinity/Continuum only: Quickload feature eliminates the slow polling speed of the panels and updates full graphic screens in a few seconds.

Schedules:
- Supports a virtually unlimited number of schedules for each site.
- Use the built-in schedules for quick setup or customize a schedule to exactly fit your needs.

Histories:
- Automatically collect and maintain historical data on all aspects of your system.
- View historical data with a variety of 2D or 3D line and bar charts.
- Chart appearance is fully customizable.
- Non-Andover devices: Automatically collects and stores historical data while the software is running.

Runtime Accumulation:
- Monitors point values and accumulates equipment runtime while the software is running.
- Generates custom alarm messages when a user-specified runtime limit is exceeded.
- Export raw data or generate printed reports daily, weekly, or monthly.

Activity Logging:
- Most user activity may be optionally stored in a log file.
- Log data is separated in to monthly files for easier searching or sorting.

Alarms:
- Alarms are separated in to three categories: Alarm, Maintenance and Informational messages.
- Alarms remain active until they are acknowledged at which time you may attach a comment to the alarm (why it happened, what was done about it, etc.)
- Alarms are stored in a master database for easy searching and acknowledging.
- All alarms can be optionally emailed to a list of addresses or pagers.
- Non-Andover devices: Automatically monitors point values for custom alarm conditions while the software is running, and generates user-specified alarm messages.

Users:
- Supports a virtually unlimited number of users.
- Four built-in password levels.
- Each user may be customized to enable/disable access to most functions.
- Individual users may log in and out of the software while maintaining all connections.

Networking:
- Drivers for each device type are independent Windows DCOM servers.
- Drivers can be executed on remote computers over a network or the Internet, eliminating the need for a serial connection to each computer running the software.
- Multiple user connections to each driver are supported even with a single RS-232 connection to the devices.
- Data requests from multiple users are synchronized and prioritized to minimize traffic between the software and the devices.

Web Hosting:
- A built-in web host allows virtually all graphic displays, schedules, alarms and historical data charts to be viewed from any computer using Internet Explorer 5.5 or above.
- No web server software or external programs are needed. The web host is 100% internal to the software.
- Most of the meters, gauges, switches and other controls can be used in the web browser and update in real-time, without page refreshes (requires downloading and installing a free set of ActiveX controls).
- No HTML programming or knowledge is required. All functions are immediately available in the web browser. No special setup is needed beyond what would normally be done for a single user workstation.
- The web host HTTP port is user-selectable.
- RS-232 Terminal mode is also available in the web browser using a free ActiveX control (includes built-in support for Andover Controls terminal mode. Other devices require a third-party Telnet server).

Customization:
- Virtually every aspect of the software may be customized:
    - Main form background colors, gradients or picture.
    - Buttons can be added to toolbars.
    - Toolbars can be added or edited.
    - Toolbar icons can be rearranged or customized.
    - The main menu is fully customizable.
    - The name of the program can be changed so it appears to be a proprietary package.
    - The help files, tip-of-the-day text, program icon and splash screen may be customized.

System Requirements:
- Any Windows 98/ME/2000/NT/XP based Pentium or compatible computer
- 64mb Memory (128mb recommended)
- 40mb hard disk drive
- A mouse or compatible pointing device
- Super VGA video card and monitor (at least 800x600 resolution recommended)
- For Andover Infinity/Continuum panels, a terminal mode interface is required. The "command line" interface is not required.

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