

CatNet Systems

CatNet HMI CH-1 (preliminary)

Overview

CatNet HMI is a stand-alone, embedded, web-based graphical interface for building automation and process/access control systems. Multiple protocols are supported including LonWorks, ModBus/485, ModBus/TCP and BACnet.



Some of the features include animated graphic screens, scheduling, historical trending, runtime accumulation and alarm monitoring. All of these features are supported even with devices that do not natively support them. CatNet will automatically toggle outputs and change setpoints on schedule, collect runtime and trend data, and monitor alarm conditions.

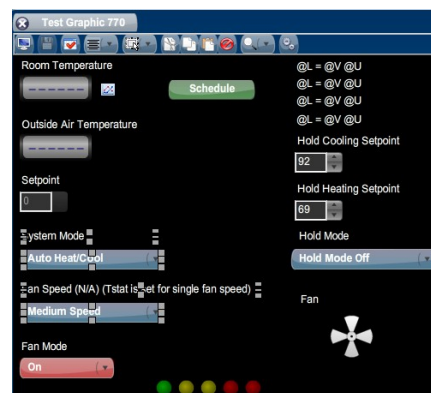
CatNet uses Flash memory for internal storage. It contains no hard disk or other moving parts. The Linux operating system is used for enhanced security and stability. CatNet is totally self-contained. All set up and user interactions are performed via a web browser. No dedicated PC or external applications are required.

The user interface utilizes Adobe Flash to allow for advanced graphical features, platform-independence and drag and drop setup. Absolutely no knowledge of HTML, XML, Flash, JavaScript or any other programming language is required to set up or use CatNet.

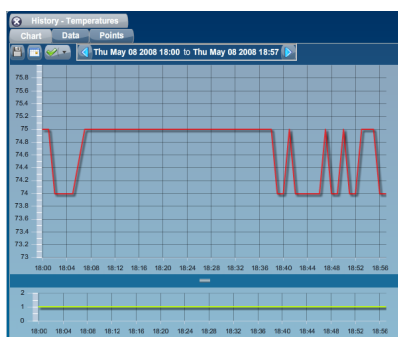
Main Interface / Animated Graphics



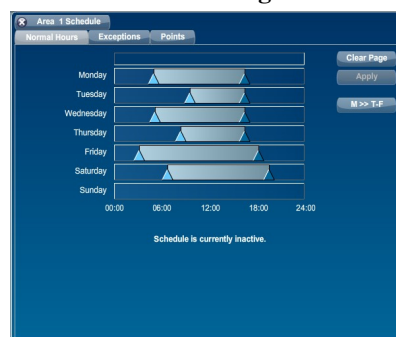
Browser-based Graphic Designer



Historical Trends



Scheduling



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Features:

- Animated graphics
- Internally maintained schedules
- Trend collection, display and export
- Runtime accumulation with email notification
- Alarm condition monitoring with email notification
- Calculated point values (average, min, max, etc)
- Database of up to 100 users and 100 user groups
- Multiple simultaneous users
- Activity log for tracking important user actions
- Template system for quickly cloning points, graphics, devices or entire networks
- Support for OEM templates that include all points, graphics, schedules, etc. for any device
- Flexible point addressing system allows access to most proprietary structures, bit fields and objects
- Calculations may be performed on data points when read and/or written (e.g. °F to °C or scaling)
- Support for custom OEM plug-in software device modules for more complex data access
- Support for up to 2,000 tree nodes which can be any combination of points, graphics, trends, etc. There are no hard limits on individual nodes. (Practical limits on control points will depend on communication speed and network bandwidth used.)

Protocols Supported:

- LonWorks
- ModBus RTU/485
- ModBus/TCP
- BACnet IP

Hardware Specifications:

- 200Mhz ARM9 CPU
- 64 MB SDRAM
- 512 MB NAND Flash
- 1 10/100 Ethernet port
- 2 USB 2.0 Compatible OHCI ports
- Watchdog timer
- Fanless -40° to +70°C
- Battery Backed Real Time Clock
- RoHS Compliant
- Power: 5V DC @ 350mA
- Small size: 4.9 x 3.1 x 1.1 inches

Requirements:

No software is required other than a web browser with the free Adobe Flash player version 9 or higher installed.

Supported browsers include:

- Windows: Internet Explorer and Firefox
- Macintosh: Safari
- Linux: Firefox
- Any other Adobe Flash 9 compatible browsers

Optional Interfaces:

- CLI-FT - USB to Lon interface (twisted pair)
- CLI-PL - USB to Lon interface (powerline)
- CMI-485 - USB to 485 interface (isolated)

For more information go to www.CatNetSystems.com

Email: info@catnetsystems.com

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