CatNet Systems CH-2

Overview

The CH-2 is a stand-alone, embedded, web-based graphical interface for building automation and process/access control systems. Multiple simultaneous protocols are supported including BACnet/IP, ModBus/485, ModBus/TCP and LonWorks.

Hardware

The CH-2 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. The CH-2 is totally self-contained.

Interface

All set up and user interactions are performed via a web browser. No dedicated PC or external applications are required. The user interface utilizes HTML5 to allow for advanced graphical features and drag and drop setup. No knowledge of HTML, XML, JavaScript or any other programming language is required to set up or use the CH-2 (a scripting language is included for optional light control logic.)

Platform

The CH-2 is designed to automatically adjust to any screen size and orientation. This allows it to be used in browsers on a PC, tablet or mobile phone with no changes or special effort necessary.
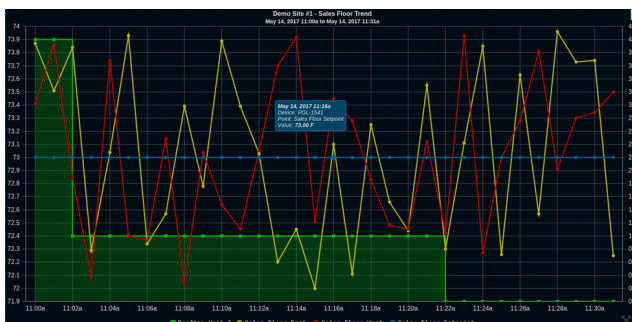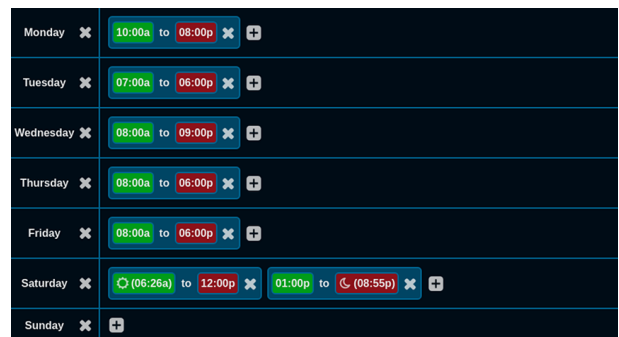
Dashboards with Over 20 Gadgets

PC, Tablet and Phone Compatible

Historical Trends

Built-in Schedules

CatNet Systems CH-2

Features:

- Dashboards with over 20 gadgets, including containers to embed graphics, trends, schedules and remote HTML content.

- Traditional graphic displays for animated systems or floor plans.

- Internally maintained schedules with sunrise/sunset and staggered starts.

- Trend collection, display and export.

- Runtime accumulation with email notification.

- Alarm condition monitoring with email notification.

- Calculated point values (average, min, max, etc).

- Simple scripting language for light control logic.

- 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, dashboards, devices or entire networks.

- 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. Deg. F to Deg. C or scaling).

- There are no hard limits on the number of tree nodes but practical limits on control points will depend on the protocol used, communication speed and the number of points being actively polled. Please contact us for advice if you need more than 2,000 tree nodes.

Hardware Specifications:

- CPU: 1.2 GHZ quad-core ARM Cortex A53
- RAM: 1 GB LPDDR2-900 SDRAM
- Storage: 8 GB NAND Flash
- 1 10/100 MBPS Ethernet Port
- 4 USB 2.0 Compatible OHCI ports
- Fanless -40° to +85°C
- Battery Backed Real Time Clock
- RoHS, FCC and CE Compliant
- Power: 5V DC @ 2.5a
- 3.54 x 2.44 x 2.83 inches (9 x 6.2 x 7.2cm)

Requirements:

No software is required other than an HTML5 compatible web browser.

Recommended browsers:

- Windows: Chrome
- Android: Chrome
- iPhone/iPad/Mac: Safari
- Linux: Chrome

Most other browsers should work, with possible minor visual differences.

Protocols Supported:

- BACnet IP
- ModBus RTU/485
- ModBus/TCP
- LonWorks
- XML/HTTP (read only)
- BACnet MS/TP
- Solidyne (optional)
- MAMAC (optional)

Optional Interfaces:

- CLI-FT - Lon interface (twisted pair)
- CMI-485 – ModBus/485 interface (isolated)
- CBI-MSTP – BACnet MS/TP interface

For more information go to www.CatNetSystems.com
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