

Basyx CH2 Web-Based Graphical Interface

Product Overview

The CH2 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.



The CH2 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 CH2 is totally self-contained.

All setup 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 CH2 (a scripting language is included for optional light control logic.)

The CH2 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. Supported browsers are Chrome (PC/Android) and Safari (iPhone/iPad). Most other browsers should work, with possible minor visual differences.

Major 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.

Runtime accumulation with email notification.





Trend collection, display and export.

Additional Features

- Alarm condition monitoring with email notification.
- Calculated point values (average, min, max, etc).
- Simple scripting language for light control logic. Internally maintained schedules with sunrise/sunset and staggered starts.
- 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).

Support for up to 2,000 tree nodes which can be any combination of points, dashboards, trends, etc. There are no hard limits on individual nodes but practical limits on control points will depend on communication speed and network bandwidth used.

Protocols Included

BACnet IP
 ModBus RTU/485
 ModBus/TCP
 LonWorks
 XML over HTTP (read only)
 ESI

Optional Protocols

MAMAC
 Solidyne
 BACnet MS/TP
 Please contact us for more information about the optional protocols.