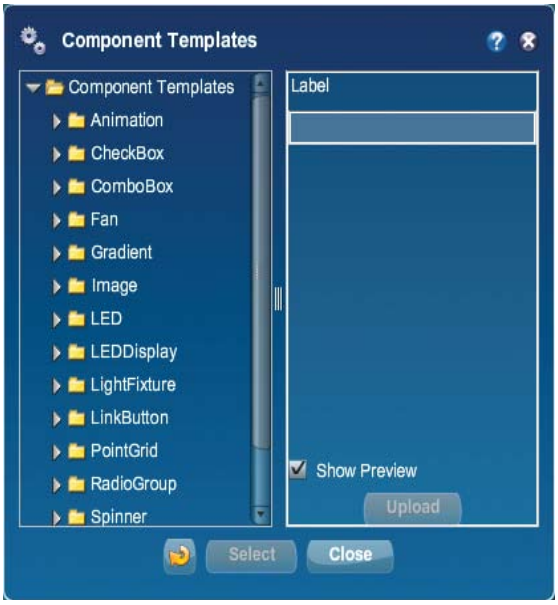
NotionControl

THE INTELLIGENT POINT OF BUILDINGS

SCADA

HMI & Interface Devices



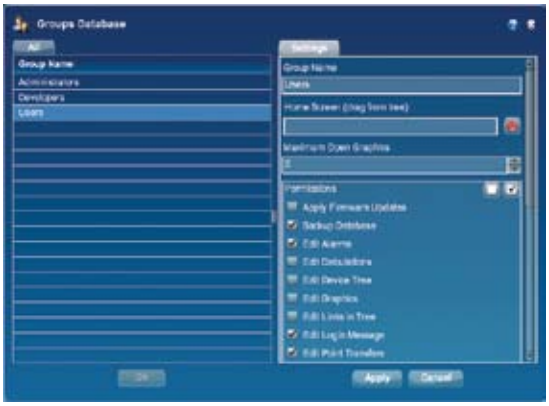
Overview

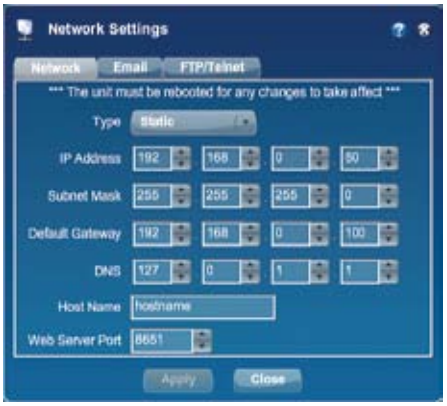
HMI Web Server is a standalone, embedded, webbased graphical interface for building automation and process/access control systems. Multiple protocols are supported including LonWorks, ModBus/485, ModBus/TCP and BACnet/IP & MS/TP.

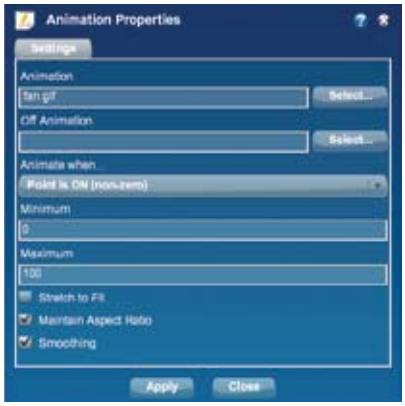
Some of the features include animated graphic screens, scheduling, historical trending, runtime accumulation and alarm monitoring. All of these features are supported even with devices that do not natively support them. HMI-WS will automatically toggle outputs and change setpoints on schedule, collect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

HMI-WS 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. HMI-WS is totally selfcontained. 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 HMI-WS.







Features

- Animated graphics
- Internally maintained schedules with sunrise/sunset and stagger offsets
- Trend collection, display and export
- Runtime accumulation with email notification
- Alarm condition monitoring with email notification
- Calculated point values (average, min, max, etc)
- Simple line programming for controlling equipment
- 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 special 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 plugin software device modules for more complex data access
- Support for thousands of 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.)

HMI-MI
ModBus/485 interface (isolated)

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: 12.5 x 7.9 x 2.8 cm

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

Protocols Supported

- LonWorks
- ModBus RTU/485
- ModBus/TCP
- BACnet IP & MS/TP

Models	
HMI-WS	SCADA
HMI-LIT	Lon interface (twisted pair)
HMI-LIP	Lon interface (powerline)
HMI-MI	ModBus/485 interface (isolated)
HMI-BI	BACnet MS/TP interface
HMI-MR	ModBus Repeater