WMS2

Web-based Building Management Station – HTML5

The WMS2 is a stand-alone, embedded, web-based graphical interface for building automation, process control and access control systems. Multiple simultaneous protocols are supported including BACnet/IP, ModBus 485, ModBus TCP/IP and LonWorks. BACnet MS/TP devices are supported via an additional MS/TP <> IP router. External data exchange is also supported by way of XML/HTML driver options.

The WMS2 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 WMS2 is totally self-contained so no PC is required on site, only access for a web browser, locally or via the internet.

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 WMS2 (a scripting language is included for optional light control logic).

The WMS2 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.

Hardware Revisions (from September 2025)

- Standard profile DIN rail mounting housing
- Screw-retained plug-in 2-pole power connector for secure power connection (5Vdc, 3A)
- Alternative power supply via USB-C socket on front face, for at-base configuration activities (5Vdc, 3A)

Key Features

- Activity definable User Groups for up to 100 users (up to 100 Groups)
- Drag & Drop point addition to graphics, trends, schedules etc.
- Numerous pre-configured graphic elements
- GIF, image and template library maybe supplemented with additional selections by the user
- QR Code generation of point device labels for on-site QR Code scanning for direct login and navigation to browser display on mobile phone or tablet

Feature Summary

- 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

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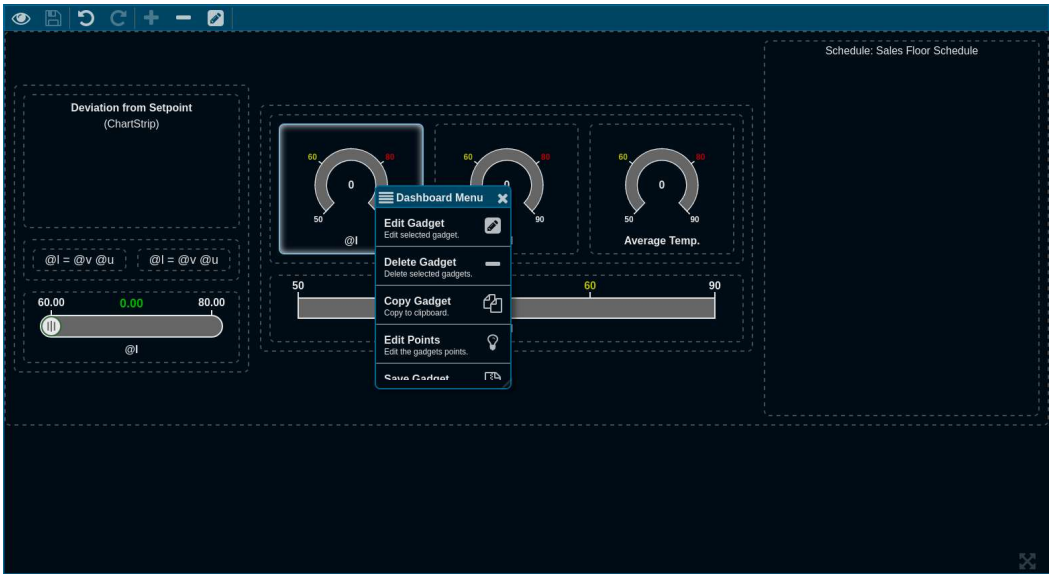
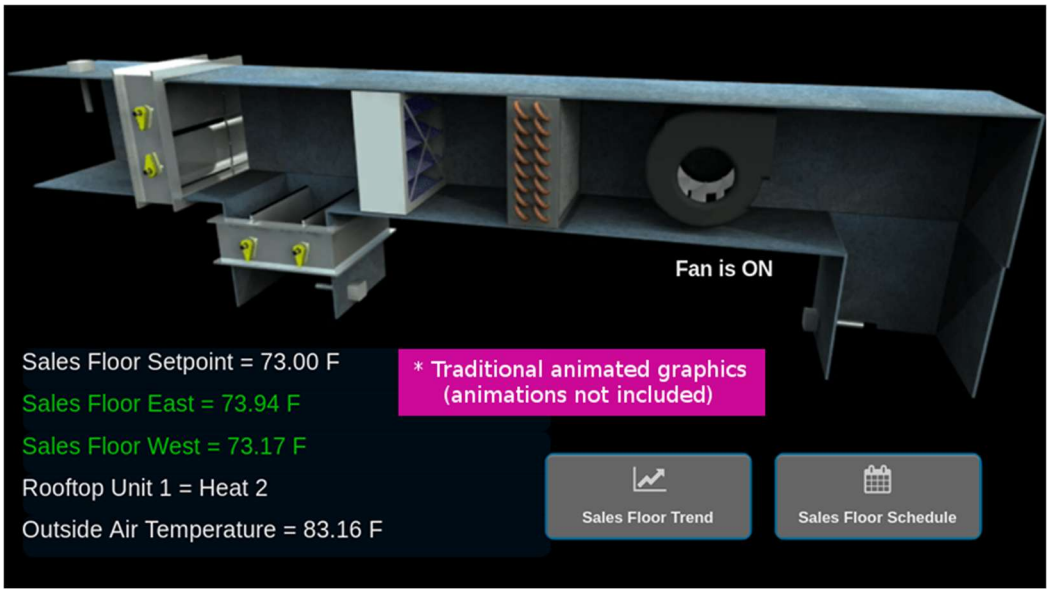
- Calculations may be performed on data points when read and/or written (e.g. Deg. F to Deg. C or scaling)
- Support for up to 2,000 tree nodes which can be any combination of points, dashboards, trends, etc. There are no hard limits on individual nodes but practical limits on control points will depend on communication speed and network bandwidth used

Pre-Defined Graphic Elements

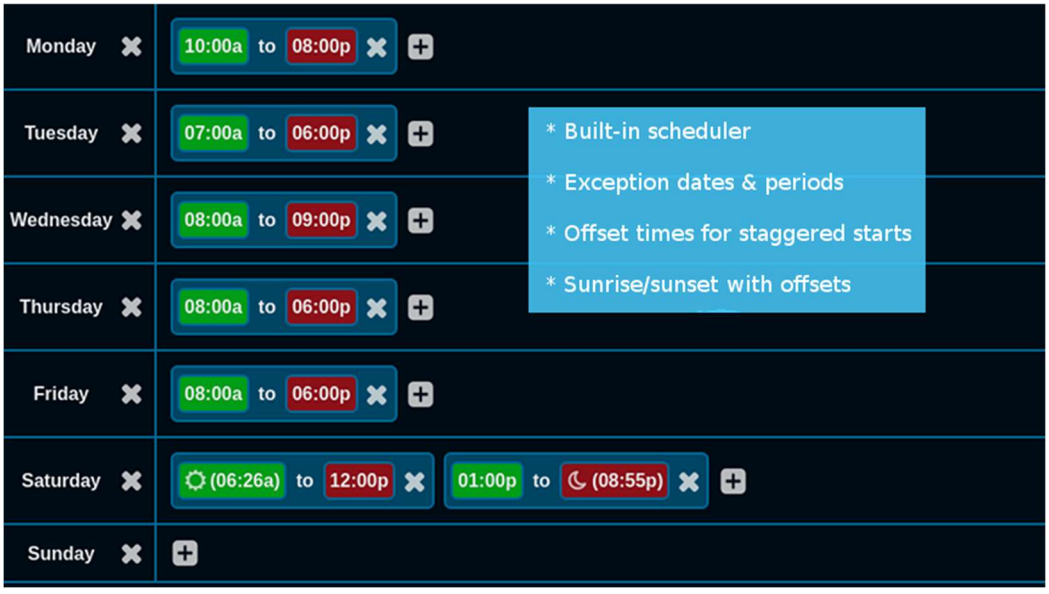
Embedded Tools for easy element addition and Drag & Drop Configuration



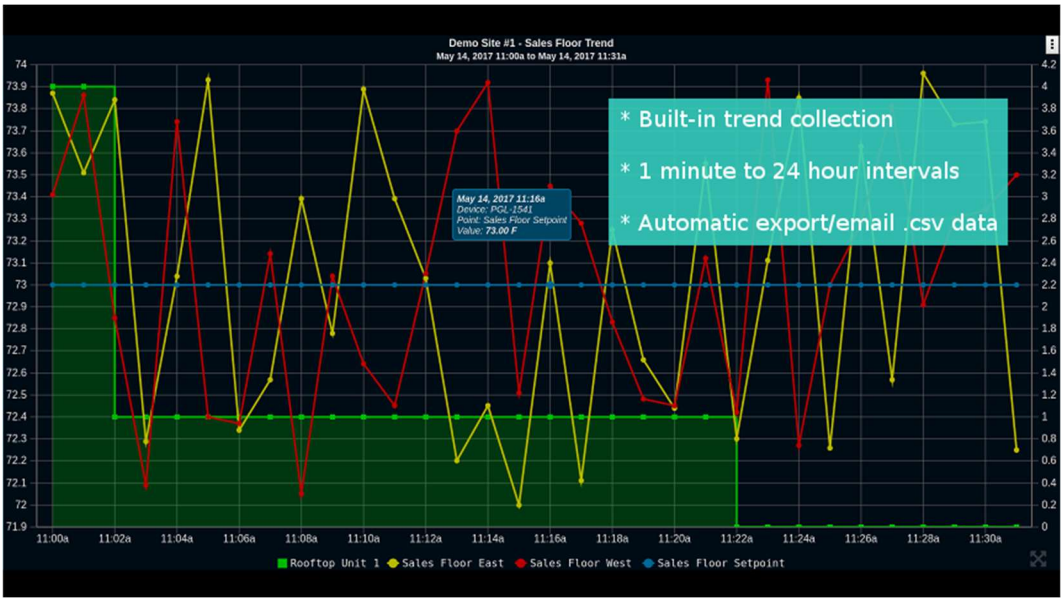
Supports Library Import of GIF Animations



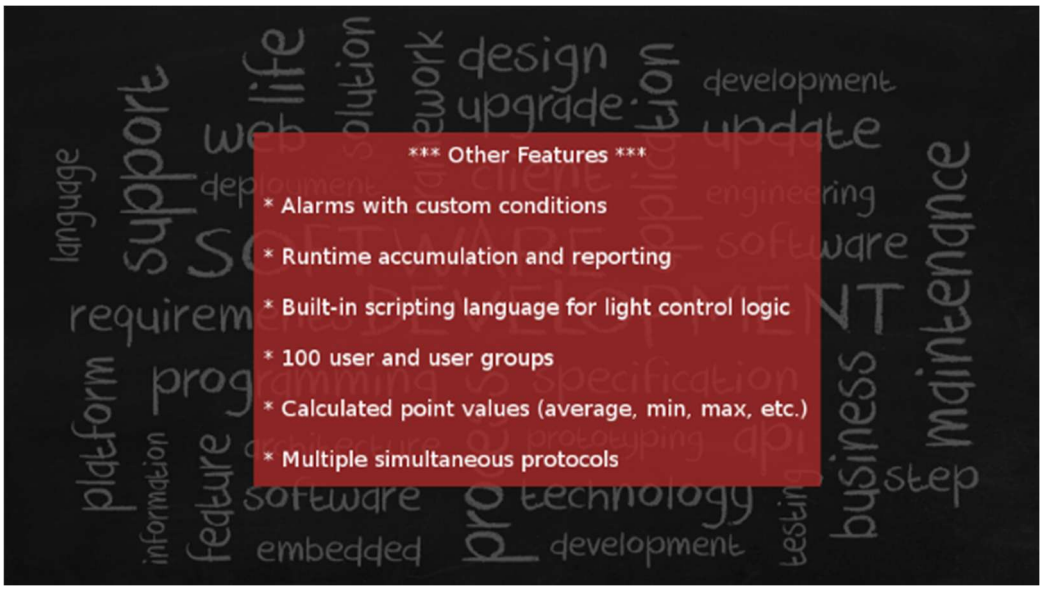
Powerful Scheduler with Drag & Drop Point Connection

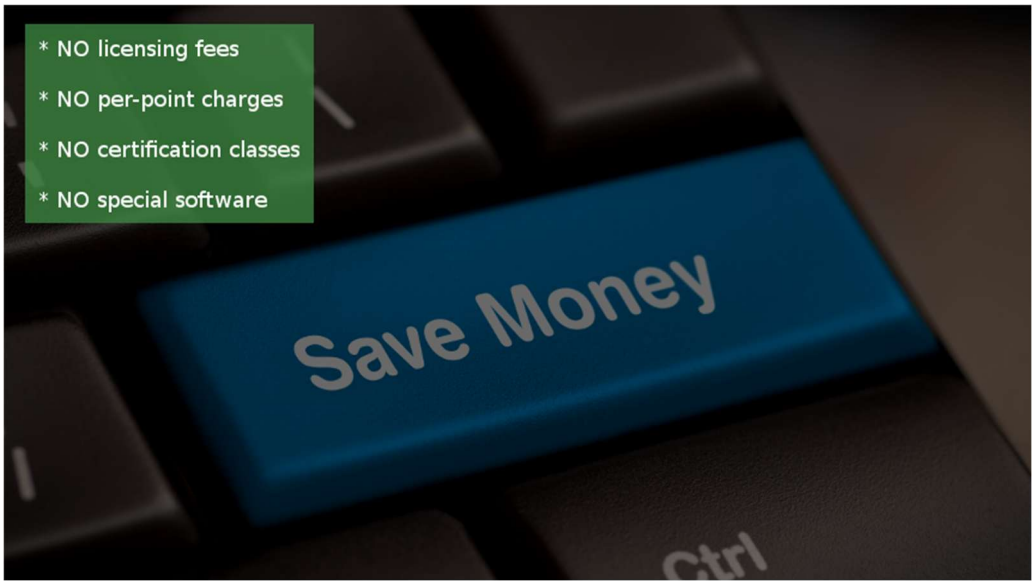


Trending with Scheduled Emailing of Export Data File



Print QR Code Labels for Fast Point Checks on Site


*** Other Features ***
* Alarms with custom conditions
* Runtime accumulation and reporting
* Built-in scripting language for light control logic
* 100 user and user groups
* Calculated point values (average, min, max, etc.)
* Multiple simultaneous protocols


* NO licensing fees
* NO per-point charges
* NO certification classes
* NO special software
Save Money
Ctrl

Hardware Specifications

- CPU: 64-bit Quad-core Cortex-A72
- RAM: 2GB LPDDR4
- Storage: 32GB microSD
- 1 x 10/100/1000 Mbps Ethernet Port
    - Use only **unshielded** CAT5e or CAT6 ethernet cables
- 2 x USB 3.0 ports
- 2 x USB 2.0 ports
- Battery-backed Real Time Clock
- RoHS, FCC and CE Compliant
- Power: 5Vdc, 3A, 15W *Not Provided*
- 45mm Wide x 105mm High x 118.2mm Deep

Supported Protocols

- BACnet IP
- BACnet MS/TP (via MS/TP <> IP router; **WMS-RT-BN**)
- Modbus RTU/485 (via USB <> Modbus adapter; **WMS-MR-485**)
- Modbus/TCP
- XML/HTTP (read only)

Requirements

No software is required other than an HTML5 compatible browser. Recommended browsers are as follows:

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

A 5Vdc, 3A (15W) power supply is required. A DIN rail power supply for connection to the 2-pole screw-retained terminals may be ordered separately with order code **HTR-MDR2005**

Alternatively a USB-C power pack rated at 5Vdc, 3A may be sourced locally for supplying the power via the WMS2 front panel USB-C socket

Optional power supply; HTR-MDR2005

Dimensions