# Honeywell

# WEB-201

## FEATURES

- **Supports open and legacy protocols.**
- **Web User Interface (optional) serves rich presentation and live data to a browser.**
- **Run stand-alone control, energy management, and multi-protocol integration.**
- **Standard and optional communications boards.**
- **Can be expanded with optional 16 and 34 point I/O Modules.**
- **Small compact design is easy to install and supports multiple power options.**

## GENERAL

The WEBs<sup>AX</sup>™ WEB-201 is a compact, embedded controller/server platform. It combines integrated control, supervision, data logging, alarming, scheduling and network management functions with Internet connectivity and web serving capabilities in a small, compact platform. The WEB-201 makes it possible to control and manage external devices over the Internet and present real time information to users in web-based graphical views.

The WEB-201 is a member of the WEBs<sup>AX</sup> suite of Java®-based controller/server products, software applications and tools, which are designed to integrate a variety of devices and protocols into unified, distributed systems. WEBs<sup>AX</sup> products are powered by the revolutionary Niagara<sup>AX</sup> Framework®, the industry's first software technology designed to integrate diverse systems and devices into a seamless system. Niagara supports a wide range of protocols including LONWORKS®, BACnet®, MODbus®, and Internet standards. The Niagara<sup>AX</sup> Framework also includes integrated network management tools to support the design, configuration, installation and maintenance of interoperable networks.
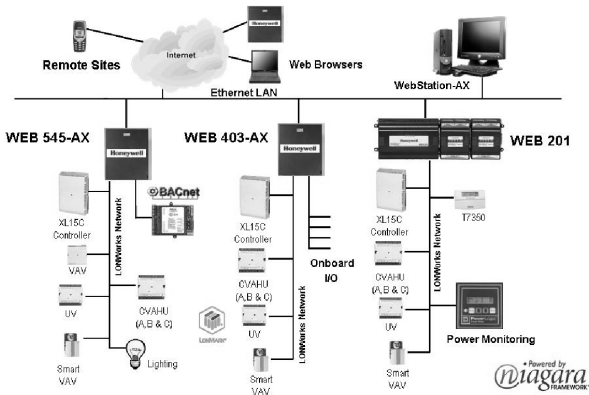
## APPLICATION

The WEB-201 is ideal for smaller facilities, remote sites, and for distributing control and monitoring throughout large facilities. Optional I/O modules can be plugged in for applications where local control is required. The WEB-201 controller also supports a wide range of field busses for connection to remote I/O and stand-alone controllers. In small facility applications, the WEB-201 controller is all you need for a complete system.

The WEB-201 controller serves data and rich graphical displays to a standard web browser via an Ethernet LAN or remotely over the Internet, or dial-up modem. In larger facilities, multi-building applications and large-scale control system integrations, WEBStation<sup>AX</sup> Supervisor™ software can be used to aggregate information (real-time data, history, alarms, etc.) from large numbers of WEBs<sup>AX</sup> controllers into a single unified application. The WEBStation<sup>AX</sup> Supervisor can manage global control functions, support data passing over multiple networks, connect to enterprise level software applications, and host multiple, simultaneous client workstations connected over the local network, the Internet, or dial-up modem.

# ORDERING INFORAMTION

| Part Number | Description |
|---|---|
| WEB-201 | Base unit including two Ethernet ports, one RS-232 port, and one RS-485 port. |



# SPECIFICATIONS

## Model
WEB-201 Controller: Base Unit including two Ethernet ports, one RS-232 port, and one RS-485 port.

## Platform
IBM® PowerPC® 405EP 250 MHz processor.
64MB SDRAM & 64 MB Serial Flash.
Battery Backup - 5 minutes typical - shutdown begins within 10 seconds.
Real-time clock - 3 month backup maximum via battery.

## Communications
2 Ethernet Ports - 10/100 Mbps (RJ-45 Connectors).
1 RS-232 Port (9 pin D-shell connector).
1 RS-485 non isolated port (3 Screw Connector on base board).

## Optional Communications Cards
NPB-LON - Optional 78 Kbps FTT10 A LON® Adapter.

## Operating System
QNX® RTOS.
IBM J9 JVM Java Virtual Machine.
Niagara^AX™.

## Power Supply
NPB-PWR - Optional: 24 Volt AC/DC power supply module, Din Rail mounted.
Optional Wall Power Modules -

NOTE: All modules are universal input 90 - 240 volts, 50/60 Hz.; the model numbers below represent the various plug configurations only.

WPM-US - 120 Vac, 50-60 Hz. US.

## Chassis
Construction: Plastic, din rail or screw mount chassis, plastic cover.
Cooling: Internal air convection.
Dimensions: 6.313" (16.04 cm) W x 4.820"(12.24 cm) H (including connectors) x 2.438" (6.19 cm) D.

## Temperature Ratings
Operating temperature range: 32° F to 122° F (0° C to 50° C).
Storage Temperature range: 32° F to 140° F (0° C to 60° C).

## Humidity Rating
5% to 95% RH, non-condensing.

## Approvals
UL 916, C-UL listed to Canadian Standards Association (CSA) C22.2 No. 205-M1983 "Signal Equipment", CE, FCC part 15 Class A, C-tick (Australia).

## Optional I/O Modules
WEB-IO-34 - 34 Point I/O Module:
    Maximum of 1 per WEB-201 Controller.
    16 Universal Inputs.
    10 relay outputs.
    8 analog outputs.
    WEB-IO-34 module is approximately 6.313 in. (16.04 cm) W x 4.820 in. (12.24 cm) H (including connectors) x 2.438 in. (6.19 cm) D.
WEB-IO-16 - 16 Point I/O Module:
    Up to 4 per WEB-201 Controller, 2 per WEB-201 Controller if combined with a 34 Point I/O module.
    8 Universal Inputs.
    4 relay outputs.
    4 analog outputs.
    WEB-IO-16 module is approximately 3.2 in. (8.2 cm) W x 4.820 in. (12.24 cm) H x 2.4 in. (6 cm) D.

**I/O Specifications - All Modules**

Connection to WEB-201 Controller is via a single multi-pin plug.

Removable screw terminals (0.2 in. [5.08 mm] centers) for all inputs and outputs.

Universal Input types supported:

Type 3 (10K) Thermistors; Thermistor Sensor Range -10° F to +240° F (23.3° C to +115.5° C). Input accuracy is in the range of +/-1% of span. Others may be supported by entering custom non-linear curve interpolation points for each unique non-linear input.

0 to 10 volt; accuracy is +/- 2% of span, without user calibration; uses an external resistor for current input (four provided, mounted by installer on terminal connections) 4/20 mA current loop; accuracy is +/- 2% of span, without user calibration; self-powered or board-powered sensors accepted.

Dry contact; V open circuit, 300-uA short-circuit current.

Pulsing dry contact at a rate of up to 20 Hz; 50% duty cycle.

Digital Outputs (4 ea.) Pilot Duty.

Form A relay contacts suitable for on/off control only; floating control not supported.

Maximum voltage - 30 volts DC or AC.

1/2 Amp maximum current rating.

Analog Outputs:

0 -10 Volt DC.

Minimum load supported per output is 2500 ohms minimum or 4 mA drain maximum.

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