

WEB-201 Controller

SPECIFICATION DATA



FEATURES

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

GENERAL

The Honeywell WEB-201 Controller 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 Controller 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 Controller is a member of the Honeywell WEBs-AX 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-AX products are powered by the revolutionary Niagara AX[™] Framework[®], the industry's first software technology designed to integrate diverse systems and devices into a seamless system. Niagara AX supports a wide range of protocols including LONWORKS[®], BACnet[®], MODbus[®], and Internet standards. The Niagara AX Framework also includes integrated network management tools to support the design, configuration, installation and maintenance of interoperable networks.

APPLICATION

The WEB-201 Controller is ideal for smaller facilities, remote sites, and for distributing control and monitoring throughout large facilities. Optional Input/Output (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 that is needed 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-AX Supervisor software can be used to aggregate information (real-time data, history, alarms, etc.) from large numbers of WEB Controllers into a single unified application. The WEBStation-AX 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.



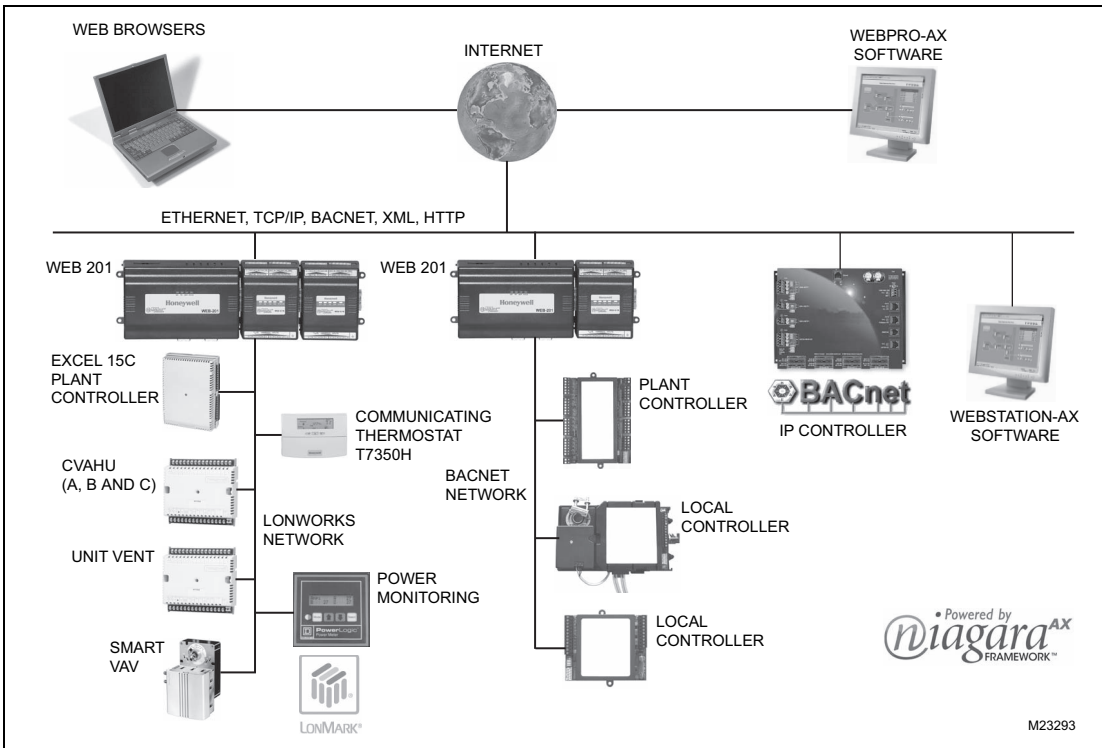


Fig. 1. Example installation with optional WEB-IO modules.

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 FTT10A LON® Adapter.

Operating System:

QNX® RTOS.
IBM J9 JVM® Java Virtual Machine.
Niagara AX.

Power Supply:

WEB-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.

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

Chassis:

Construction: Plastic, DIN Rail or screw mount chassis, plastic cover.

Cooling: Internal air convection.

Dimensions (W x H x D):

6.313 in. (16.04 cm) x 4.820 in. (12.24 cm) x 2.483 in. (6.19 cm).

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.

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.

LON[®], LONWORKS[®] and Echelon[®] are registered trademarks of Echelon Corporation.

QNX[®] is a registered trademark of QNX Software Systems, Ltd.

IBM[®] and PowerPC[®] are registered trademarks of International Business Machines Corporation.

JVM[®] and JAVA[®] are registered trademark of Sun Microsystems, Inc.

MODbus[®] is a registered trademark of Schneider Automation, Inc.

BACnet[®] is a registered trademark of the American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc.

Niagara AX[™] is a trademark, and Niagara Framework[®] is a registered trademark of Honeywell International, Inc.

Automation and Control Solutions

Honeywell International Inc.
1985 Douglas Drive North
Golden Valley, MN 55422
customer.honeywell.com

Honeywell Limited-Honeywell Limitée
35 Dynamic Drive
Scarborough, Ontario M1V 4Z9

Honeywell