

## WEB-600

MODELS: WEB-600, WEB-600-O, WEB-600-US,  
WEB-600-O-US

### SPECIFICATION DATA



### FEATURES

- Supports open and legacy protocols.
- Web User Interface (standard) 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.
- Embedded IBM® Power PC Platform.

### GENERAL

The WEB-600 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-600 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-600 is a member of the 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 NiagaraAX Framework®, the industry's first software technology designed to integrate diverse systems and devices into a seamless system. NiagaraAX supports a wide range of protocols including LONWORKS®, BACnet®, Modbus®, and Internet standards. The NiagaraAX Framework® also includes integrated network management tools to support the design, configuration, installation and maintenance of interoperable networks.

### APPLICATION

The WEB-600 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-600 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-600 controller is all you need for a complete system.

The WEB-600 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™ software can be used to aggregate information (real-time data, history, alarms, etc.) from large numbers of WEBs-AX™ 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 softwa



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applications, and host multiple, simultaneous client workstations connected over the local network, the Internet, or dial-up modem.

**Table 1.**

Part Number	Description
WEB-600	Based unit including two Ethernet ports, one RS-232 port, one RS-485 port, one USB port, Web User Interface, Niagara <sup>AX</sup> Connectivity, and oBix™ driver included.
WEB-600-O	WEB-600 with open license (NiCS has accept.wb.in="**")
WEB-600-US	WEB-600 controller manufactured in the USA.
WEB-600-O-US	WEB-600 controller with open license manufactured in the USA.

## SPECIFICATIONS

**Model:** WEB-600 Controller: Base Unit including two Ethernet ports, one RS-232 port, one RS-485 port, one USB port, Web User Interface, Niagara<sup>AX</sup> Connectivity, and oBix driver.

**Platform:** IBM® PowerPC® 440 524 MHz processor. 128 MB DDR RAM & 128 MB Serial Flash. Optional 256 MB DDR RAM.

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).

**256 MB Memory Upgrade Option:** Memory upgrade option (NPM-256) increases memory to 256 MB DDR.

**Operating System:** QNX® RTOS, IBM J9™ JVM® Java Virtual Machine, Niagara<sup>AX</sup> 3.1 or later.

**Chassis:** Construction: Plastic, din rail or screw mount chassis, plastic cover.

Cooling: Internal air convection.

Dimensions: 6.3 in. (160 mm) W x 4.8 in. (122 mm) H (including connectors) x 2.4 in. (61 mm) D.

**Temperature Ratings:** Operating temperature range: 32° to 122° F (0° to 50° C).

Storage Temperature range: 32° to 158° F (0° to 70° C).

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

**Approvals:** RoHS, BTL (with optional BACnet driver), 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 Communications Cards: Manufactured in the US

**Table 2.**

Part Number	Description
<b>DR-LONFT10-AX</b>	Optional 78 Kbps FTT10 A LON® Adapter and LonWorks communication driver. (card and driver bundle).
<b>NBP-LON</b>	Optional 78 kbps FTT10 LON adapter (card only).
<b>NPB-RS232</b>	Optional RS-232 port adapter with 9 pin D-shell connector.
<b>NPB-2X-RS485</b>	Optional dual port RS-485 adapter, electrically isolated.
<b>NPB-MDM</b>	Optional Auto-dial / Auto-answer 56 KBPS modem; consumes one option card slot; cannot be used if NPB-GPRS-H modem is selected.
<b>NPB-GPRS-H</b>	Optional GPRS Modem communications card with SIM card for connection via Wyleless network; Wyleless is the only approved service provider for the continental US, consumes one option card slot.

## Power Supply Options:

**Table 3.**

Part Number	Description
<b>NPB-PWR-H</b>	Optional: 24 Vac/dc power supply module, Din Rail mounted. Manufactured in the US.
<b>NPB-PWR-UN-H</b>	Optional universal voltage input power supply module, Din Rail mounted. Input voltage is 90 - 263 Volts AC, 50/60 Hz, auto adjusting.
<b>NPB-WPM-US</b>	Optional Wall Power Module. Input 120 Vac, 50-60 Hz. US wall plug power supply.

**Optional I/O Modules:** Table 4 lists the I/O models that can be connected to the WEB-600. Optionally, IO-16-REM-H can be connected; details can be found in the data sheet 74-5082.

**Table 4.**

Feature	IO-16 WEB-IO-16	IO-16-US	IO-34 WEB-IO-34	IO-34-US
Manufactured in	China	USA	China	USA
Universal Inputs	8		16	
Relay Outputs	4		10	
Analog Outputs	4		8	
Dimensions (in inches)	3.2W x 4.8H x 2.4D		6.3W x 4.8H x 2.4D	
Dimensions (in mm)	82W x 122H x 61D		160W x 122H x 61D	
Max per WEB-600 controller	4 / 2*		1	

\*4 or 2 in combination with IO-34/IO-34-US.

**I/O Specifications - All Modules:** Connection to WEB-600 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° to +240° F (23° to +116° 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 - 30V DC or AC.

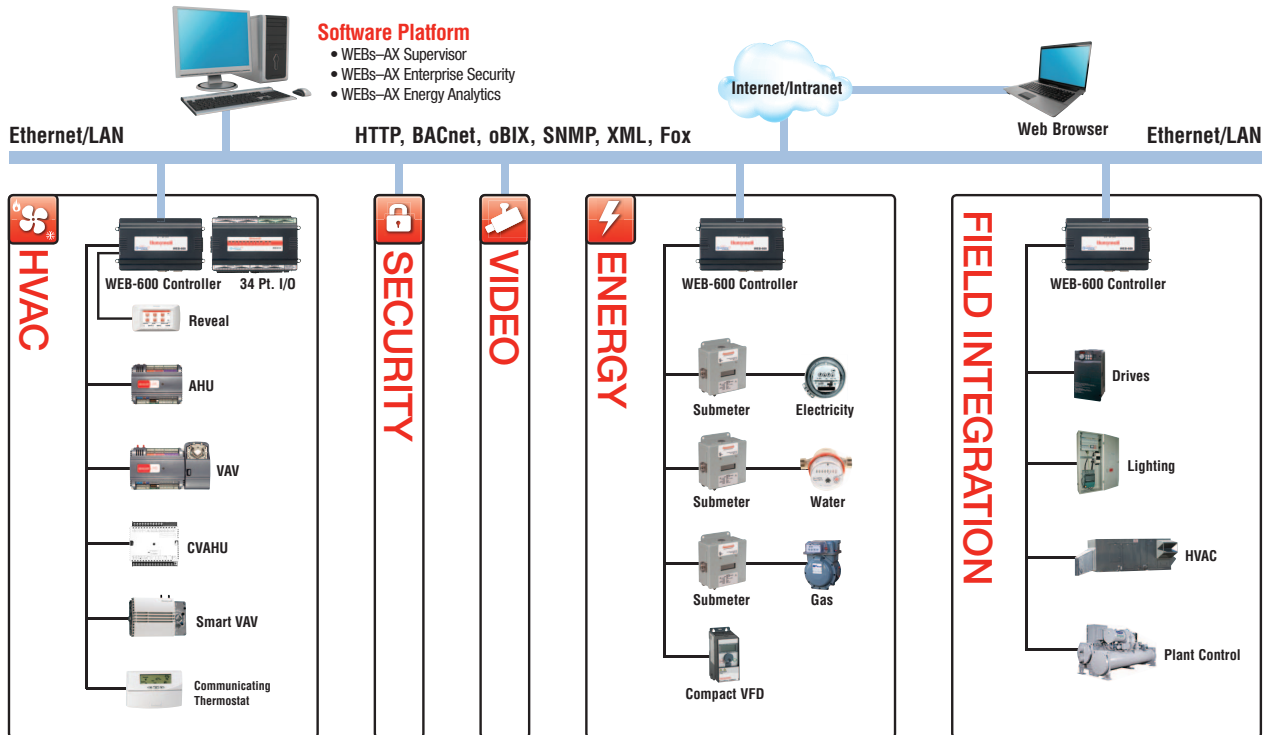
1/2 Amp maximum current rating.

Analog Outputs:

0 -10 Volt DC.

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

## WEBS-AX™ System Integration



WEB-600ARCH PR  
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WEB-600

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