

AX3-PPC Programmable Plant Controller

SPECIFICATION DATA



FEATURES

- 34 hardware control points (expandable with NDIO and NRIO modules).
- Pre-Licensed for five remote devices – either BACnet, Modbus or Lon.
- Web User interface serves rich presentations and live data to any browser.
- Two Communications board sockets for optional communications card.
- Built-in 24 volt AC/DC input power supply.
- Din Rail mountable for quick installation.
- Supports up to 150 total points and up to 5 remote devices.

OVERVIEW

Honeywell's AX3-PPC Programmable Plant Controller is part of Honeywell's portfolio of Java-based controller/server products, software applications and tools, designed to integrate a variety of devices and protocols into unified, distributed systems. These products are powered by the NiagaraAX Framework®, the industry's leading software technology that integrates diverse systems and devices into a seamless system.

The NiagaraAX Framework includes integrated management tools to support the design, configuration and maintenance of a unified, real-time controls network. The Input/Output module with low voltage power supply makes this package ideal for equipment control.

APPLICATIONS

The AX3-PPC Programmable Plant Controller is ideal for controlling and monitoring a building system including HVAC equipment, lighting, and meters. The AX3-PPC Controller is a bundled product consisting of a WEB-300E controller paired with an IO-H-34 module that provides 34 points for local control. The IO count can be expanded with up to two additional 16-point NDIO modules and four 16-point remote NRIO modules. In addition to local control, the AX3-PPC is licensed for up to five remote devices that can be integrated to the controller into the controller via Lon, BACnet or Modbus. In total, the AX3-PPC can integrate up to 150 points. The AX3-PPC serves data and rich graphical displays to a standard web browser via an Ethernet LAN or remotely over the Internet. In larger facilities, multi-building applications and large-scale control system integrations, WEBs-AX Supervisor™ software can be used to aggregate information (real-time data, history, alarms, etc.) from large numbers of controllers into a single unified application.



Ordering Information

Table 1. Odering Information.

Part Number	Description
AX3-PPC	WEB-300E with 34 point I/O module. Features include Niagara station and Web User Interface. Standard drivers include oBIX Client / Server and Niagara Network (Fox) Client / Server. Includes Modbus, BACnet and Lon drivers limited to a total of 5 devices or 150 points per controller. Requires 24 VAC or 24 VDC Power Source. Option cards required for communication to remote devices are not included. Battery not included. Requires AX 3.8 or later.
Optional Communication Cards	
NPB-LON	78 Kbps FTT 10 A Lon® adapter
NPB-232	Single Port RS 232 Option Card
NPB-2X-485	Dual Port RS-485 Option Card
NPB-GPRS-W	GPRS Modem option, bundled with Wyleless SIM card
Optional I/O Expansion Modules	
IO-16-H	Includes 8 Universal Inputs, 4 Form A Relay Outputs, and 4 0-10 VDC Analog Outputs. Mounts in-line with AX3-PPC on DIN rail. AX3-PPC supports up to 2 IO-16 modules.
IO-16-REM-H	Includes 8 Universal Inputs, 4 Form A Relay Outputs, and 4 0-10 VDC Analog Outputs. May be mounted remotely. Communicates to AX3-PPC via a dedicated RS-485 port. AX3-PPC supports up to 4 IO-16-485 modules.
Optional Power Accessories	
NPB-BATT	Battery module. Provides up to 10 minutes of backup power.

SPECIFICATIONS

General

WEB-300E and IO-H-34 Module with optimized license for equipment control
 Real-time clock – 2 week backup
 WEBs-AX 3.8 or later
 Oracle Hotspot Java Virtual Machine

IO-H-34 - 34 Point I/O Module

16 Universal Inputs (Type 3 (10k) Thermistors, 0-1000 ohm, 0-10 volts, 0-20 mA with external resistor)
 10 relay outputs (Form A contacts, 24 VAC @ .5 amp rated)
 8 analog outputs (0-10 volt DC)

Communications

2 Ethernet Ports – 10/100 Mbps (RJ-45 Connectors)
 1 RS 232 Port (RJ-45 connector)
 1 RS 485 non isolated port (Screw Connector on base board)
 2 card slots for optional communication cards

Environment

Operating temperature range – 0° to 60°C (32°F to 140°F)
 Operating temperature range – 0° to 50°C (32°F to 122°F) with battery
 Storage temperature range – 0° to 60°C (32°F to 140°F)
 Relative humidity range – 5% to 95%, non-condensing

Power Input

24 Volt AC or DC input power supply
 Termination is via screw type terminal block

Controller and IO-H-34 Chassis

Construction – Plastic, din rail or screw mount chassis, plastic cover
 Cooling – Internal air convection
 Dimensions (WEB-300E) – 6.313” (16.04 cm) W x 4.820” (12.24 cm) H (including connectors) x 2.438” (6.19 cm) D
 Dimensions (IO-H-34) – 5.969” (15.16 cm) W x 4.820” (12.24 cm) H (including connectors) x 2.438” (6.19 cm) D
 Dimensions for both WEB-300E and IO-H-34 including Mounting Ears 13.094” (33.26 cm) W x 4.820” (12.24 cm) H (including connectors) x 2.438” (6.19 cm) D

Agency Listings

RoHS Compliant
 UL 916
 C-UL listed to Canadian Standards Association (CSA) C22.2 No. 205-M1983 “Signal Equipment”
 CE
 FCC part 15 Class B
 C-tick (Australia)

Automation and Control Solutions

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