WC2003A (WEB-545)
WC2003B (WEB-545-UI)
(JACE 545 AND JACE 545-UI)

FEATURES

• **Embedded RISC Microprocessor platform.**

• **One LON® FTT10A port for LON® device integration.**

• **Four RS-485 ports (electrically isolated) for connection to open and proprietary protocol devices.**

• **Two RS-232 port for Integration or support of an optional internal modem.**

• **Integral web UI services to support many simultaneous users over the intranet or Internet via a standard web browser (WEB 545-UI only).**

OVERVIEW

Honeywell WEBs® is a product suite developed on the Niagara Framework® that provides an end-to-end building automation solution. Users can seamlessly integrate LONWORKS®, BACnet®, Modbus®, OPC, and other standard protocols with legacy systems to provide a unified real-time controls network. The suite includes a browser-based graphical user interface allowing users to view and manipulate underlying systems without the need for dedicated workstations or client software.
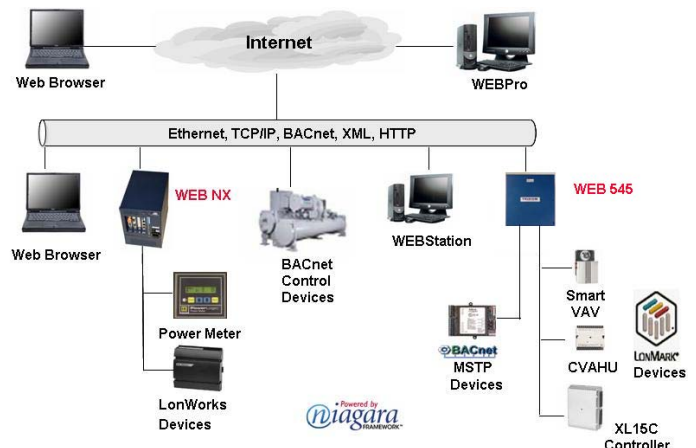
This suite provides the ability to create a customized user interface that combines intuitive navigation screens with dynamic, real-time displays. Third party graphic images, debugs, and if images can also be used in the creation of the user interface. Unique software technology eliminates the need for page refreshes or polling for data updates, thereby minimizing required bandwidth.

WEBs products bundle this software capability in a hardware platform that can be installed in typical building control environments. WEBs connect to system field busses and provide real-time control functions as constant streams of data from individual systems are instantaneously transformed to a common object model within the WEB. WEBs provide a fully distributed system when multiple units are networked together, which provides unsurpassed scalability and reliability.

APPLICATIONS

Specifically designed for commercial applications, the WEB-545 is ideally suited for users who require a compact controller that can be wall or enclosure mounted. A single WEB-545 controller can support a network of devices via the LonWorks port and auxiliary devices that can be accessed directly via onboard I/O, or through the 4 RS-485 ports, or an RS-232 port (unless used by the optional internal modem).

The WEB-545 can integrate any combination of LON®, Modbus, BACnet, or legacy devices with the appropriate optional drivers.

SPECIFICATIONS

Platform:
Motorola RISC Processor @ 250MHz.
WEBs Control Engine- with direct I/O support objects.
128 MB Ram, 32 MB Flash for database backup.
One 10/100 Mb Ethernet RJ-45 connector.
FCC Class "A" computing Device.

Communications
One 10/100 Mb Ethernet port - RJ-45 connection.
Two RJ-45 connectors for RS-232 port.
Four RS-485 ports (up to 76,800 baud).
One LONWORKS® port - FTT-10 with Weidmuller connector.
Optional auto-dial /auto-answer 56K modem; RJ-11 connector
(uses one RS-232 port when installed).

Operating System
Wind River VxWorks® Operating System with Jeode Java™
Virtual Machine.
Java Application Control Engine Software with I/O control
objects.

Power Supply
120VAC, 50/60 Hz (WEB-545 J - 100 VAC, 50/60 Hz).
25 VA maximum.
Lead wires for hot/neutral (wire nut), stud for ground connec-
tion. WEB-545I has two-screw terminal strip for AC power
connections, plus a stud for ground.

Battery Backup
Battery backup provided for all onboard functions
(including I/O).
Battery is monitored and trickle charged.
Battery maintains processor operation through power failures
for a pre-determined interval, then writes all data to flash
memory, shuts processor down, and maintains clock for a
minimum of five years.

Chassis:
Housed in metal enclosure.
Intended for indoor wall mounting only.
Cooling: Internal air convection.
Dimensions: 11 in. (279 mm) wide X 14 in. (356 mm) high X
2-1/2 in. (63 mm) deep.
Weight:
Net: 4 lbs. (1.81 kg).
Gross: 5 lbs. (2.27 kg).

Agency Listings
UL 916.
C-UL listed to Canadian Standards Association (CSA) C22.2
No. 205-M1983 "Signal Equipment".
CE.
FCC part 15 Class A.

Environment
Operating temperature range: 32 to 122°F (0 to 50°C).
Storage Temperature range: 32 to 158°F (0 to 70°C).
Relative humidity range: 5% to 95%, non-condensing.

Resource Capacities
Java Resource count maximum is 600,000.
Maximum Lon devices = up to 124.
Maximum MSTP devices per RS-485 port = 31; requires one
MSTP driver per port.
Port speeds supported are:
4800 baud
9600 baud
19,200 baud
38,400 baud
57,600 baud
76,800 baud

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