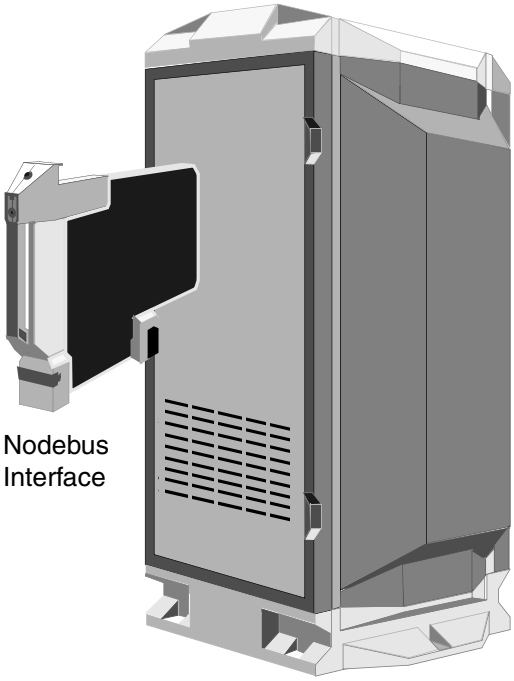
I/A Series® Hardware Personal Workstation for Operators and Engineers (PW-OE) (formerly known as PW)



Nodebus Interface

I/A Series Enclosure

The I/A Series system supports the use of Personal Workstations (PW's) for a wide variety of functions. I/A Series software is compatible with qualified Pentium class personal computers. The Foxboro Company provides Personal Workstation based solutions, which include personal computer hardware and I/A Series software packages to match the intended use and capacity of the Personal Workstation.

As a desk-top Personal Workstation, the PW-OE performs the combined functions of an I/A Series Workstation Processor and limited Application Processor to provide for bulk storage, processing, and human interface on an I/A Series Node.

The Personal Workstation also performs the function of on-line system configuration. In this mode, the user has a broad range of configuration tasks, from database and control strategy configuration to system monitoring. Also, an environment is provided for writing, compiling, and debugging C language and FORTRAN 77 application programs.

As a process operator's display, the PW-OE monitors the process. In this case, frequently used process display files can be maintained on the hard disk of the PW-OE and quickly recalled for display.

INTERFACES

Nodebus Interfaces require an interface card in the PW-OE to connect the PW-OE to the Nodebus. The card is connected by an AUI (Access Unit Interface) cable (up to 45 m [150 ft]) to a Nodebus Interface Module in an I/A Series enclosure. In this configuration, the PW-OE functions as a station on the node.

SOFTWARE

The software supplied with each Personal Workstation includes:

- Operating System (with Workstation Processor and Application Processor functions)
- Display Builder, Display Configurator, and Display Utilities
- Real-Time Relational Database

NOTE

Only one Compound Summary Access and Device Monitor software package can reside on the network.

Optional Software that may be operated within the workstation includes:

- System Management Display Handler
- System Configurator
- Integrated Control Configurator
- Compound Summary Access
- FOXCAD
- Mathematics Library
- Physical Properties Library
- Historian 20
- Spreadsheet
- System Monitor
- Device Monitor
- 760 Station Configurator
- 761 Station Configurator
- SPC (Statistical Process Control)
- Automation Equipment Manager
- AEM Display
- Process Optimize
- Operator Message Interface
- Remote Alarm Message Server
- Remote Alarm Message Dispatcher
- Report Writer 20

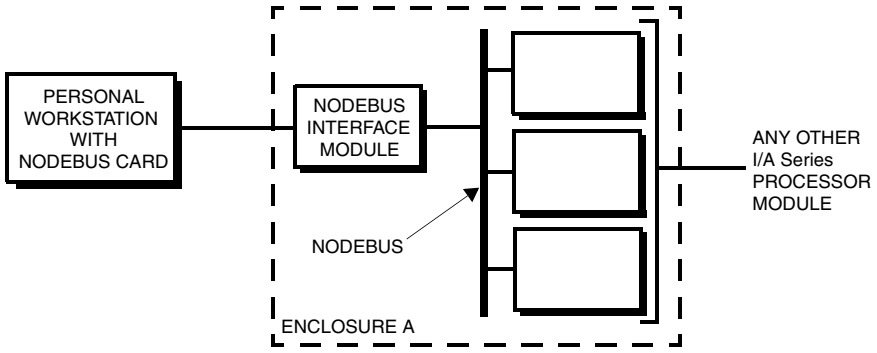


Figure 1. Nodebus Interface Configuration

FUNCTIONAL SPECIFICATIONS

Personal Workstation and Peripherals

FOXBORO PENTIUM
- – Intel Pentium microprocessor, 100 MHz
- – 8 MB RAM
- – Main processor board interfaces: VGA video, parallel printer, serial mouse/trackball, floppy disk
- – 504 MB hard disk: IDE interface
- – 1.44 MB 3.5-inch floppy disk
- – 14-inch, 15-inch, 17-inch or 19-inch VGA monitor
- – Windows 95 keyboard, English language
- – Annunciator and touchscreen are not available with PW systems

POINTING DEVICE
Standard serial mouse, optional trackball, or optional Industrial trackball

PRINTER
Standard dot matrix printer 80 column, optional color dot matrix printer 132 column or color postscript printer

Nodebus Interface

DISTANCE
Up to 45 m (150 ft) from PW-OE to I/A Series Enclosure
- • 3 m (10 ft) cable
- • 15 m (50 ft) cable
- • 45 m (150 ft) cable

INTERFACE TYPE
Non-redundant

Documentation

I/A Series Hard Copy Documentation (Electronic Documentation on CD-ROM Optional; requires separate Windows PC.)

Power Requirements - Personal Workstation

MONITOR INPUT VOLTAGE
120 to 240 V ac, 47 to 63 Hz, auto-switching

MONITOR POWER CONSUMPTION
100 W maximum

DESKTOP UNIT INPUT VOLTAGE
120 to 240 V ac, 47 to 63 Hz, manual switcing

DESKTOP UNIT POWER CONSUMPTION
150 W maximum

ENVIRONMENTAL SPECIFICATIONS - Personal Workstation

Operating(a)

TEMPERATURE (PROCESSOR)
10° to 35° C (50° to 95° F)

RELATIVE HUMIDITY (PROCESSOR)
15% to 80%, noncondensing

Storage

TEMPERATURE (PROCESSOR)
–10° to +60° C (–14° to +140° F)

RELATIVE HUMIDITY (PROCESSOR)
10% to 90%, noncondensing

(a)Operating temperature and humidity ranges may vary with data storage media.

PHYSICAL SPECIFICATIONS - Personal Workstation

Dimensions (approximate)

KEYBOARD
- Height: 38.1 mm (1.5 in)
- Width: 457.2mm (18 in)
- Depth: 168.4 mm (6.63 in)
- Mass: 1.4 kg (3.1 lbs)

SYSTEM UNIT
- Height: 112 mm (4.4 in)
- Width: 438 mm (17.3 in)
- Depth: 414 mm (16.3 in)
- Mass: 8 kg (18 lbs)

14-INCH DISPLAY
- Height: 316 mm (12.44 in)
- Width: 348 mm (13.7 in)
- Depth: 371 mm (14.6 in)
- Mass: 11 kg (24 lbs)

15-INCH DISPLAY
- Height: 370 mm (14.57 in)
- Width: 365 mm (14.37 in)
- Depth: 384 mm (15.12 in)
- Mass: 15 kg (32 lbs)

17-INCH DISPLAY
- Height: 438 mm (17.24 in)
- Width: 418 mm (16.46 in)
- Depth: 469 mm (18.46)
- Mass: 21 kg (47 lbs)

19-INCH DISPLAY
- Height: 474 mm (18.8 in)
- Width: 474 mm (18.8 in)
- Depth: 502 mm (19.5 in)
- Mass: 30 kg (66 lbs)

REGULATIONS - Personal Workstation

Meets or exceeds the following requirements:

Safety
- US
  - UL (UL Std 1950)
- CANADA
  - CSA (C22.2 No. 950)
- EUROPE
  - TUV(CENELEC EN60950)

EMI/RFI
- US
  - FCC Class B
- CANADA
  - DOC, Class B
- EUROPE
  - EN55022, 1988; EN50082-1; 1992

For specifications on the I/A Series System and Printers, refer to the applicable Foxboro Product Specification Sheet (PSS)9

The Foxboro Company
33 Commercial Street
Foxboro, Massachusetts 02035
United States of America

Telephone (508) 543-8750