

I/A Series® Hardware Personal Workstation for Off-Line Configuration (PW-C)



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.

The Configuration Workstation (PW-C) provides an environment that allows off-line configuration of I/A Series equipment, operational software packages, and displays.

The System Configurator specifies and documents the system hardware, software, network, and enclosures. The Control and I/O Configuration software lets an engineer configure continuous, sequential, and ladder control schemes for the Control Processors in an I/A Series system. The Display Builder and Display Configurator are used to configure real-time displays for either the Workstation Processor or PW.

An environment is available for writing, compiling, and debugging C Language and FORTRAN 77 application programs. An image of the Control Processor exists in the workstation to allow preliminary checkout of most control strategies and process displays. The PW-C may serve as a primary training device for other PW and I/A Series systems.



The PW-C is an off-line tool and cannot be connected to a Fieldbus or Nodebus without additional equipment and software.

SOFTWARE

The software supplied with each workstation includes:

- Operating System (with Application Processor, Workstation Processor, and Control Processor functions)
- System Monitor
- System Management Display Handler
- Display Builder, Display Configurator, and Display Utilities
- System Configurator
- Integrated Control Configurator
- Compound Summary Access
- Real-Time Relational Database
- Historian 20
- Spreadsheet
- Operator Message Interface

Optional Software that may be operated within the workstation includes:

- FOXCAD
- Mathematics Library
- Physical Properties Library
- SPC (Statistical Process Control)
- Automation Equipment Manager
- AEM Display
- Process Optimizer
- Report Writer 20

Software languages supported are C and FORTRAN.

The above software is also sold separately for use on qualified platforms. Refer to Foxboro for ordering instructions and list of qualified platforms.

FUNCTIONAL SPECIFICATIONS

Personal Workstation and Peripherals

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

POINTING DEVICE

Standard serial mouse, optional trackball, or optional Industrial trackball

PRINTER

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

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 switching

DESKTOP UNIT POWER CONSUMPTION

150 W maximum

Training

(Optional packages which can run on the PW-C)

- I/A Series for the Process Operator
- I/A Series for the Process Technician
- I/A Series for Small Systems

PHYSICAL SPECIFICATIONS

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

9 kg (20 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)

ENVIRONMENTAL SPECIFICATIONS - Personal Workstation

Operating(a)

TEMPERATURE

10° to 35°C (50° to 95°F)

RELATIVE HUMIDITY

15% to 80%, noncondensing

Storage

TEMPERATURE

-10° to +60°C (-14° to +140°F)

RELATIVE HUMIDITY

10% to 90%, noncondensing

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

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

SERVICE

A Maintenance Agreement is provided during the Standard Warranty period. Included with this agreement are telephone services and software revisions, when issued. Details of services may vary depending on geographic location. Refer to your Sales/Service Representative for further information.

TRAINING

"Introduction to I/A Series Small Systems" is a self-study training package designed to train plant or mill personnel in the operation and configuration of I/A Series Small Systems. This package is suitable for both PW-NB and PW-FB. It consists of a 4-1/2 hour video program, a training manual, and software which runs on PW-NB, PW-FB, PW-C, or on I/A Series Systems. The material is presented in 12 modules which can be used to train process operators, technicians, and engineering personnel. NOTE: PW-NB systems must include a control processor to perform the training.

- Exploring Personal Workstation Hardware
- I/A Series Software Terms and Concepts
- Operation of the I/A Personal Workstation
- Controlling a Process with the I/A Series Personal Workstation
- Exploring the Personal Workstation's Configuration Software
- Configuring the Process Control Subsystem
- Introduction to Group Display Configuration
- Introduction to File Utilities
- Introduction to Environment Configuration
- Introduction to Creating Process Displays
- Introduction to Historian Configuration and Report Writing
- Introduction to the I/A Series Spreadsheets

NOTE: The self-study training packages and additional training manuals must be purchased separately.

Part Numbers: B0193EW - Complete Package
B0193EY - Additional Manual

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

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