Cancelled Per SSN 374
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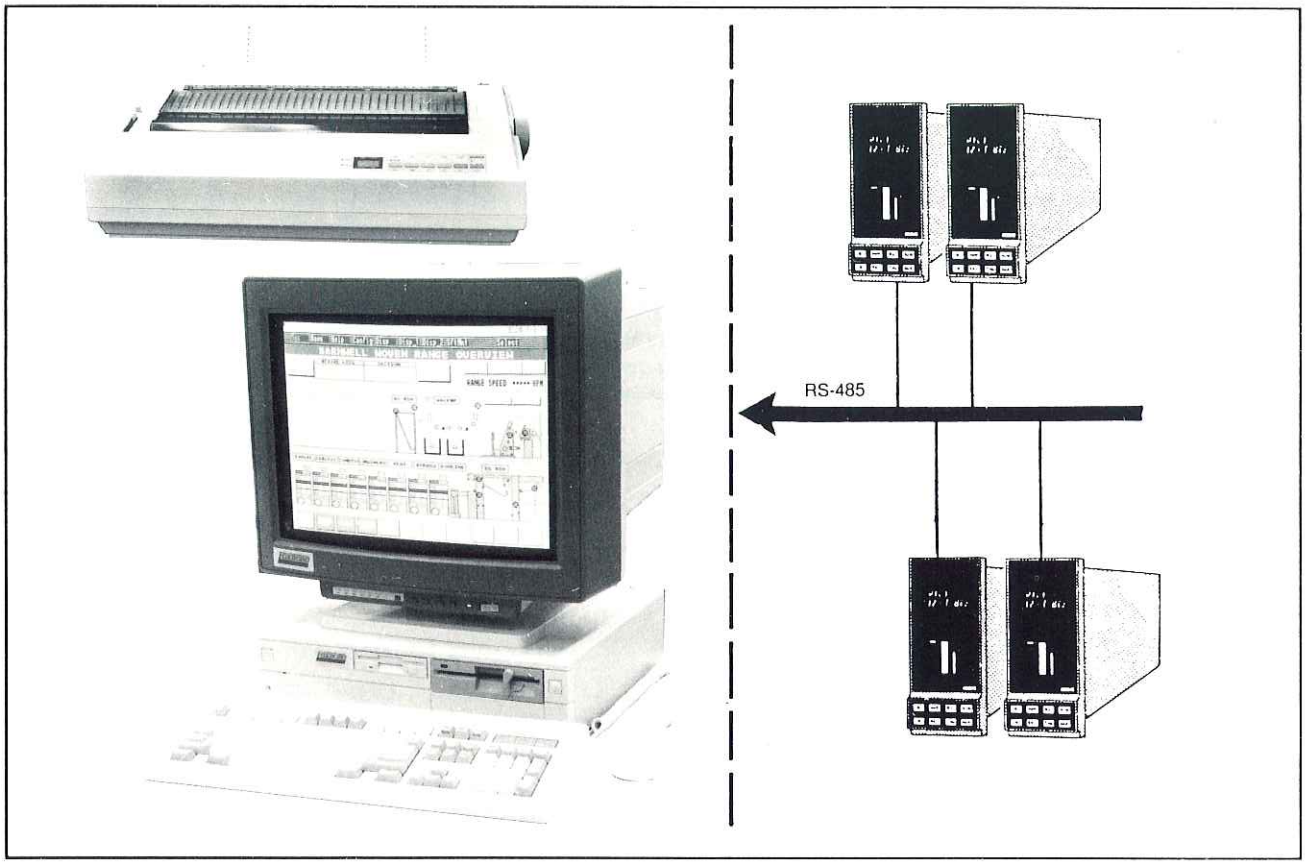
# I/A Series®
# Personal Workstation for SINGLE STATION MICRO Controller Interface (PW-SSI)




The I/A Series system supports the use of Personal Workstations (PW's) for a wide variety of functions. 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 PW-SSI serves as the information processor and human interface for a related set of 760/761 Series Controllers, Indicators, and Manual Stations. In this case the PW performs as an Application Processor, Workstation Processor, and Instrument Interface. Supervisory level functions include the Spreadsheet and optional Historian software packages.

## RS-485 INTERFACE

The interface to the 760/761 Series Controllers is via a PW-SSI interface card in the Personal Workstation connected, by using twisted pair cable in daisy-chain fashion, to the 760/761 Series Controllers. The PW-SSI cannot be attached to an I/A Series Nodebus.

## SOFTWARE

The software supplied with each Personal Workstation includes:

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

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Optional Software that may be operated within the workstation includes:

- Historian 20 (up to 500 points)
- 760 Series Controller Configurator
- 761 Series Controller Configurator
- Mathematics Library
- Physical Properties Library
- SPC (Statistical Process Control)
- Automation Equipment Manager
- AEM Display
- Process Optimizer
- Spreadsheet

Software languages supported are C and FORTRAN.

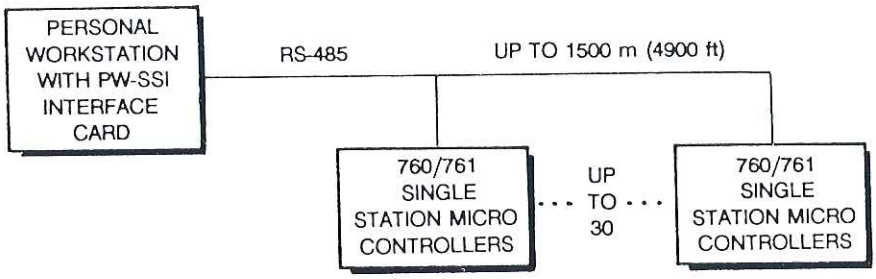


Figure 1. PW-SSI Interface Configuration

## FUNCTIONAL SPECIFICATIONS

### Personal Workstation and Peripherals

FOXBORO 486DX2/66

- Intel 80486DX2 microprocessor, 66 MHz
- 8 K cache
- 8 Mb RAM, 80 ns or faster speed
- Main processor board interfaces: VGA, parallel printer, serial mouse/trackball, floppy disk
- 270 Mb hard disk: IDE interface
- 1.44 Mb 3.5 inch floppy disk
- Standard 14 inch VGA, or optional 19 inch VGA (640 x 480), 16 colors
- 101 key enhanced keyboard, English language
- Annunciator and touchscreen not available with PW systems

POINTING DEVICE

Standard serial mouse, optional Microspeed trackball, or optional Industrial trackball

PRINTER

Standard dot matrix printer 80 column, optional dot matrix printer 132 column, or optional color Ink-jet printer

### Block Types

The control engineer can configure:

| | | | |
|---|---|---|---|
| ACCUM | DGAP | PID | REALM |
| ALMPRI | DTIME | PIDE | SIGSEL |
| BLNALM | EXC | PIDX | SWCH |
| CALC | IND | PIDXE | TIM |
| CHARC | LLAG | PTC | D760 |
| DEP | MON | RAMP | D761 |

### Configurable Scan Rates

1, 2, 4, 8, 16, 32, 64, or 128 seconds

### Blocks

Up to 250 block equivalents

### Process I/O Capacity

Up to 30, 760/761 Series SINGLE STATION MICRO Controllers.

### Process I/O Interface*

TYPE

EIA RS-485

DISTANCE

1500 m (4900 ft) maximum

TRANSMISSION RATE

4.8 Kbps

*Customer supplied cable.

## FUNCTIONAL SPECIFICATIONS (Cont.)

**Documentation**
Hard copy standard (I/A Series Electronic Documentation optional)

**Power Requirements - Personal Workstation**
INPUT VOLTAGE
90 to 132 V ac, 47 to 63 Hz
198 to 264 V ac, 47 to 63 Hz
CONSUMPTION
465 W maximum with convenience outlet used at 150 W maximum
HEAT DISSIPATION
710 BTU's per hour maximum

## PHYSICAL SPECIFICATIONS - Personal Workstation

**Dimensions (approximate)**
HEIGHT
Keyboard
5.5 cm (2.2 in)
System Unit
11.0 cm (4.3 in)
14 Inch Display
37 cm (14.7 in)
19 Inch Display
48 cm (19 in)

WIDTH
Keyboard
48.7 cm (19 in)
System Unit
43.9 cm (17.3 in)
14 Inch Display
35.3 cm (13 in)
19 Inch Display
48 cm (19 in)

DEPTH
Keyboard
20.7 cm (8.1 in)
System Unit
41.1 cm (16.2 in)
14 Inch Display
37 cm (14.8 in)
19 Inch Display
50 cm (20 in)

MASS
Keyboard
1.9 kg (4.21 lbs)
System Unit
9 kg (20 lbs)
14 Inch Display
8.2 kg (18 lbs)
19 Inch Display
32.5 kg (72 lbs)

## ENVIRONMENTAL SPECIFICATIONS - Personal Workstation

**Operating(a)**
TEMPERATURE
10 ° to 35 °C (50 ° to 95 °F)
RELATIVE HUMIDITY
20% to 80% at 36 °C (Noncondensing)
ALTITUDE
3.05 Km (10 000 ft)

**Storage**
TEMPERATURE
−40 ° to +70 °C (−40 ° to +158 °F)
RELATIVE HUMIDITY
20% to 92% at 36 °C (Noncondensing)
ALTITUDE
15.2 Km (50 000 ft)

**Noise (typical)**
40 dB (peripherals idle, at 1 meter)

**Electrical Classification**
Ordinary Locations

**Static Discharge**
7.5 kV max.

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

## REGULATIONS - Personal Workstation

Meets or exceeds the following requirements:

**Safety**
- US
  - UL 1950 1st Edition
- CANADA
  - CSA C22.2 No. 950M-89
- EUROPE
  - TUV to EN60950 with ZHI/618 Ergonomics
  - IEC 950 and IEC 380

**EMI/RFI**
- US
  - FCC 47 CFR Part 15 Level B
- CANADA
  - DOC CRC c.1374 Class B
- EUROPE
  - VDE 0871 1 Level B, CISPR-B