Series 1000, 2000, and 3000 Industrial Terminals and Workstations

Whether you need an industrial terminal or a full computer, Nematron's Series 1000, 2000, and 3000 Workstations with OptiSCREENTM, OptiBASICTM, or touchscreens can meet your needs.

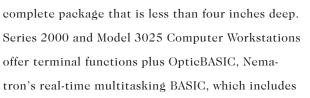
Use the Series 1000 or Model 3015 Terminal

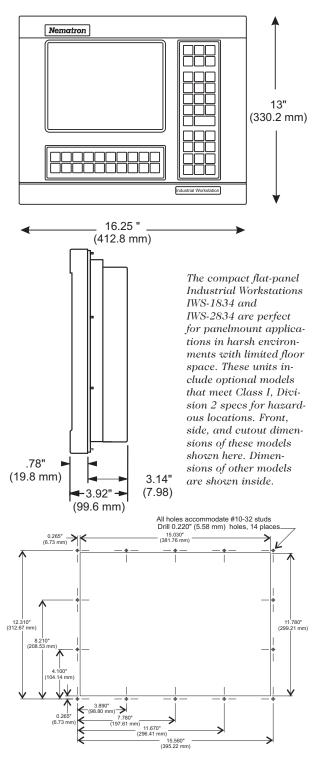
Features

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- NEMA 4 systems for operation under extremes of temperature and humidity
- OptiSCREEN[™] editor—quickly develop text and graphic screens with Nematron's proprietary full-screen editor
- OptiBASIC[™] programming—on computer workstations, improve efficiency by processing data, updating screens, and responding to user output, simultaneously
 Over 20 PLC Drivers—simplifies connections to many of the industry's most popular PLCs. Included with OptiBASIC

Workstations to provide display output and accept operator input from PLC ASCII or BASIC modules, motion control systems, or industrial computers. These Workstations feature built-in message memory, local message editor, character graphics, and programmable character sets. Choose a flatpanel model of the Series 1000 and conserve space with a

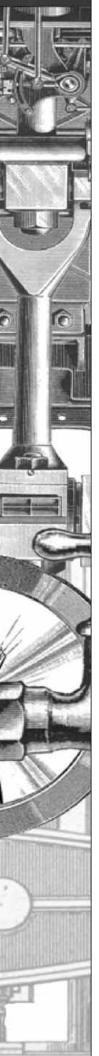




over 20 PLC communications drivers. These Workstations provide operator interface, data processing, and report generation.

The 3015 and 3025 offer 5" x 9" monochrome CRT and an optional 40-position touchscreen.





2000 models have various integral keyboards and an optional 60-position touchscreen.

All these rugged NEMA 4 systems will operate safely under extreme temperatures, humidity, shock, and vibration. Some models also meet Class I, Division 2 specifications for hazardous locations.

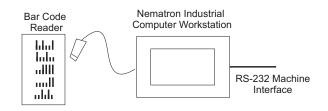
Computer Workstation Applications

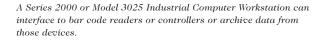
The Series 2000 or Model 3025 Industrial Computer Workstations can perform complex applications that PLCs and other industrial devices can't handle, such as calculations, combining data from multiple sources, and compiling reports.

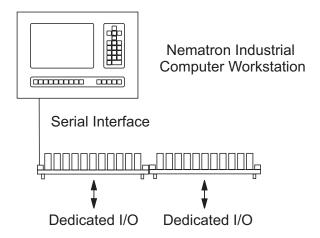
Because of their communication and storage capabilities, these units can track and manipulate historical data for trend displays, simple analyses, and production reports.

The Computer Workstations feature OptiSCREEN screen editor and OptiBASIC, Nematron's industrialized BASIC with built-in PLC protocols. OptiBASIC is a powerful programming tool with built-in features that allow line trending, PID control, alarm monitoring, and report generation.

OptiBASIC's multitasking capabilities allow several different operations to execute at the same time. For example, an application may require the system to continually monitor a remote serial input and also update process parameters used to generate a report.





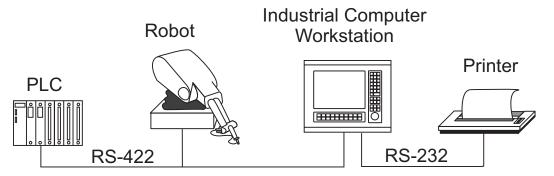


Nematron's Industrial Computer Workstations can control I/O devices.

These units also support direct connections to an I/O system, which allows you to use them in data acquisition systems and control applications that do not require a PLC.

Logic III vs. Logic IV Boards

The Series 1000, 2000, and 3000 Industrial Terminals and Workstations are equipped with Nematron's proprietary logic boards Logic III or Logic IV. The Logic III board supports a 256KB memory cartridge,



A Nematron Industrial Computer Workstation with OptiBASIC performs several different operations simultaneously and uses remote serial inputs to update several process parameters.

which allows users to extend internal memory. The Logic IV board supports pixel based graphics and flat-panel displays.

Models that use the Logic III board include: IWS-1020, 1021, 1021T, 1023, 1023T, 1123, 1623, 1624, 2020, 2021, 2021T, 2023, 2023T, 2123, 2623, 2624, 3015 3015T, 3025, and 3025T.

Models that use the Logic IV board include: IWS-1103, 1133, 1603, 1633, 1834, and 2834; and HWS-1834 and HWS-2834.

Compatible with Most Popular PLC Drivers

- Allen-Bradley: PLC-2, PLC-3, PLC-5 (DF1); SLC-500 (DH-485)
- GEC: GEM80
- GE Fanuc: Series 1, 3, 5, 6 (CCM-2); Series 90 (SNP)
- Hitachi: H Series
- Honeywell: 620 (CIM)
- Mitsubishi: A Series
- Modicon: 184, 384, 484, 584; 884, 984 (DB-25); 984 (DB-9); Micro 984; Compact 984
- Omron: C Series (Host Link)
- Opto 22: Optomux
- Reliance: Automate 15, 20, 30, and 40
- Siemens: S5 and CP525
- Square D: 300, 400, 500, 600, 700 (Sylink)
- Simatic/TI: 305 (same as GE Fanue Series One); 335, 435, 500/525; TI PM550
- Westinghouse: PC-500, PC-700, PC-900, PC-1100, PC-1200, and PC-1250

Cables are available to connect the Nematron Industrial Terminals and PLC Workstations to most popular PLCs. Contact your local distributor or the factory.

Terminal Workstation Applications

Logic IV-based units allow users to download PCX and BMP graphics to display custom characters.

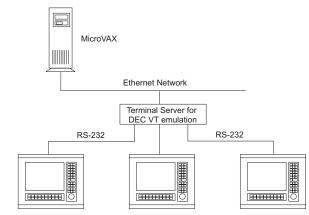
Connect a Series 1000 or a Model 3015 Industrial Terminal Workstation to an intelligent host device such as a PLC ASCII module, PLC BASIC module, industrial controller, minicomputer, or mainframe host.

The Terminal Workstations provide operator input and display output to the host using RS-232, RS-422, or RS-485 serial communications. Use RS-422 or RS-485 to connect the host to multiple terminals via a single cable.

With OptiSCREEN, a Nematron Terminal Workstation can accept a simple code from the host device to display a screen stored in the Workstation's memory. Storing the screen in the terminal saves the host from sending a description of the entire screen, which allows for faster screen updates, and allows the host to perform other tasks.

A Nematron Industrial Terminal can be used as a dumb terminal to display all of the screen information and dynamic data sent by the host device.

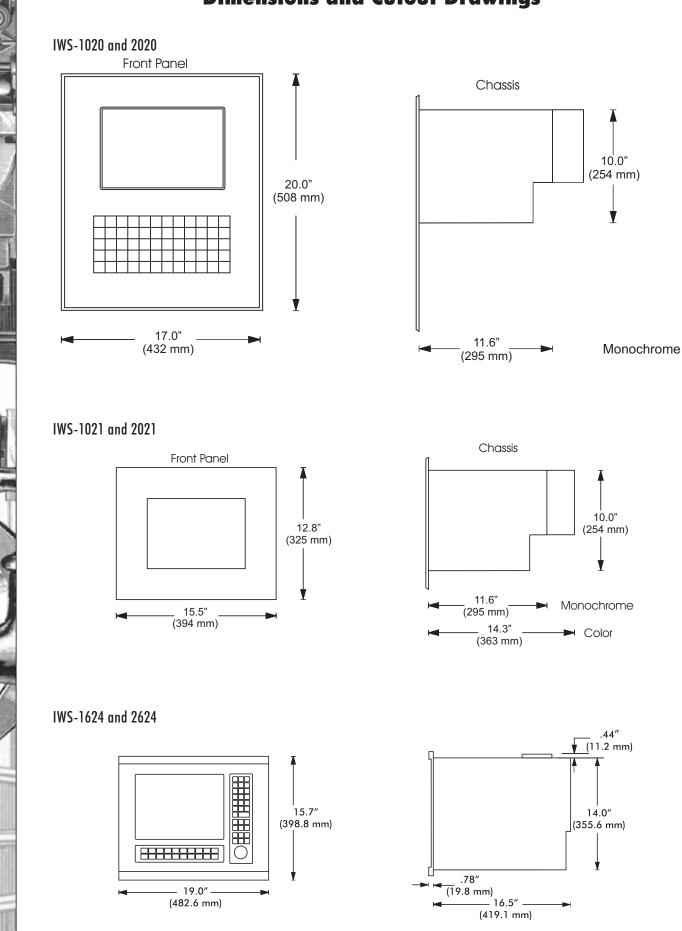
User-definable character sets on Logic III models allow you to store up to 2048 individual characters that can be used in applications that require Asian and European characters or special graphic symbols.



Nematron's Industrial Terminal Workstations can be used on the plant floor with a MicroVAX and Ethernet network.

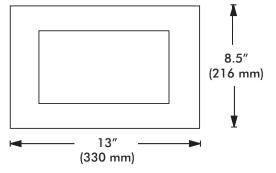


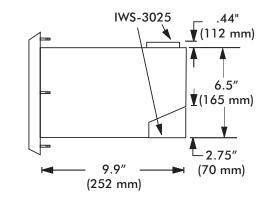
Dimensions and Cutout Drawings



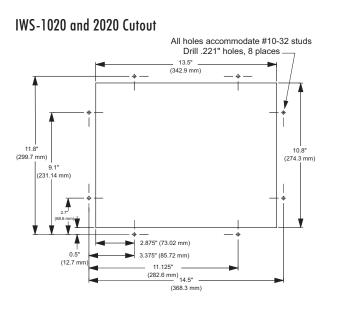
Dimensions and Cutout Drawings

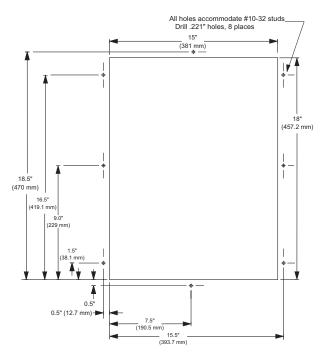
IWS-3015 and 3025

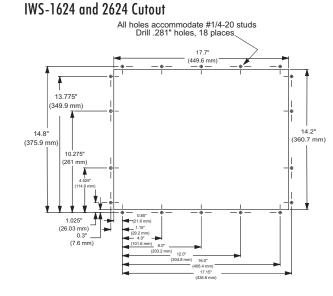




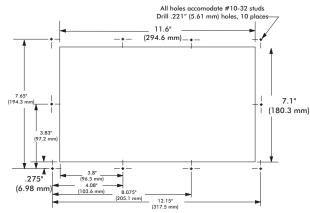
IWS-1020 and 2020 Cutout







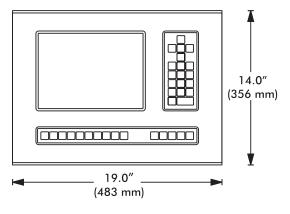


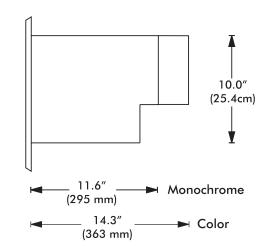


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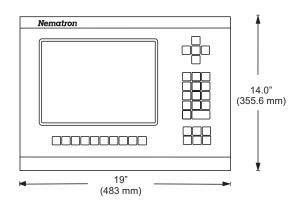
Dimensions and Cutout Drawings



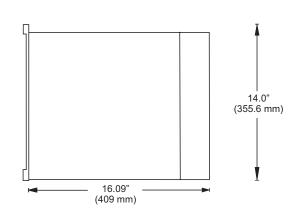


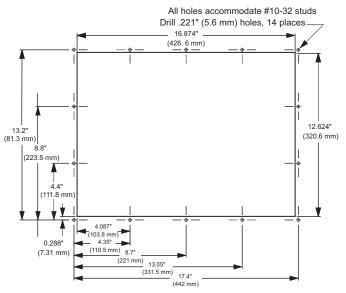






Cutout for IWS-1023, 2023, 1103, 1133, 1603, 1633, 1123, 1623, 2123, 2623





Pilot holes are molded into the rear of the front panel for standard 19" rack mounting.



How to Order

Use the following model numbers to order the Nematron industrial terminal or computer workstation you w Industrial Terminal Workstations with OptiSCREEN (Logic III) IWS-1020 12" amber monochrome CRT, o65-position keyboard, no touchscreen option IWS-1021 12" monochrome CRT, no integral keyboard IWS-1023 12" monochrome CRT, 34-position keyboard, with touchscreen IWS-1023 12" monochrome CRT, 34-position keyboard, with touchscreen IWS-1023 12" monochrome CRT, 34-position keyboard, with touchscreen IWS-1023 14" monochrome GRT, 34-position keyboard, with touchscreen IWS-1023 14" monochrome GRT, 34-position keyboard, no touchscreen IWS-1623 14" color CRT, 52-position L-shaped keyboard, no touchscreen IWS-1624 14" color CRT, 52-position L-shaped keyboard, touchscreen IWS-1625 5" x 9" amber monochrome CRT, no integral keyboard IWS-0155 5" x 9" amber monochrome CRT, no integral keyboard IWS-0131 14" grayscale monochrome CRT, 35 keys, OptiSCREEN Industrial Terminal Workstations with OptiSCREEN (Logic IV) IWS-1133 14" grayscale monochrome CRT, 35 keys, OptiSCREEN Industrial Computer Workstations with OptiSCREEN and OptiBASIC (Logic III) IWS-2021 12" monochrome CRT, no integral keyboard, no touchscreen option IWS-2021 12" monochrome CRT, no integral keyboard IWS-2021 12" monochrome CRT, no integral keyboard IWS-2021 12" monochrome CRT, 34-position keyboard IWS-2021 12" monochrome CRT, 34-position keyboard IWS-2023 12" monochrome CRT, 34-position keyboard, with touchscreen IWS-2123 14" color CRT, 35-position L-shaped keyboard, no touchscreen option IWS-2024 14" color CRT, 35-position L-shaped keyboard, no touchscreen option IWS-2025 5" x 9" amber monochrome CRT, no integral keyboard, 256KB integral memory IWS-3025 5" x 9" amber monochrome CRT, no integral keyboard, 256KB integral memory IWS-3025 5" x 9" amber monochrome CRT, no integral keyboard, 256KB integral memory IWS-3025 5" x 9" amber monochrome CRT, no integral keyboard, 256KB integral memory IWS-3025 5" x 9" amber monochrome CRT, no integral keyboard, 256KB integral	rant.
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EM-C256 256K memory cartridge for Logic III products	

