



P1/P1H PowerStations

P1: A powerful display-based panel replacement alternative

CTC's 1/4 VGA PowerStation is a powerful, PC architecture hardware and HMI solution for your panel replacement applications. The Model P1 workstation includes Interact software for panel replacement, along with alarming, graphics and networking capability. This software combination makes it easy for you to replace pushbuttons, digital meters, and other devices used in panels, eliminating the time and cost of hardwiring. The Model P1 PowerStation gives operators the information they need to more effectively monitor and control your machine or process. In addition, free-form graphics and animation capability enables you to provide a realistic representation of your application.

P1H: A "basic" HMI with Interact Panel ToolKit and Networking Runtime software

The P1H PowerStation provides another alternative for customers seeking a low cost solution for simple push button replacement applications.

This new "basic" HMI with only Interact Panel ToolKit Runtime and Networking Runtime software is able to use 50+ Interact Drivers and is available in two models - monochrome and color. Customers can use either MachineShop or the new MachineShop Basic HMI Package (which includes only the Interact Panel Toolkit Module) to develop P1H screens. Users in the field can also easily upgrade the P1H to a fully functional P1.

P1/P1H PowerStations - a solution for any OEM application

You can use CTC's Model P1/P1H PowerStations in a wide variety of applications, such as packaging, paper, food, beverage, pharmaceutical, and petro/chemical. In addition, Interact applications are portable - so you can use the same Model P1 Interact application on any workstation or PC platform. Plus, Interact works with most control equipment; this feature is beneficial for OEMs whose equipment must support multiple PLCs.

CTC's P1 and P1H PowerStations can do the following for your machines:

- Replace hardwired panels, save time and reduce installation cost
- Reduce panel size
- Support over 25 Interact PLC communication drivers
- Provide applications that can migrate to other PowerStations or PCs
- Use the full featured, Interact HMI software
- Removable Compact FLASH memory for easy field upgrades

For More Information on HMI & Machine Control Products, Call 1-800-233-3329.



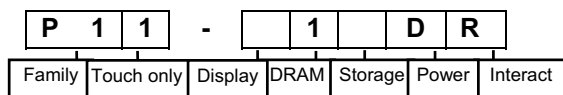
P1/P1H PowerStations

	Features	Values
Software	Interact Run-Time Software	P1: PTM, AMM, GMM, NET; P1H: PTM, NET
Display	Type Backlight Monochrome/Color Resolution Size	Flat Panel Cold Cathode Fluorescent Tube Mono - LCD; Color - STN 1/4 VGA (320 x 240) 5.7" (145 mm) Diagonal
CPU	80386 SX/40 MHz	
System Memory	Standard	8 MB standard (1 SIMM 72 pin)
Storage Memory	Compact FLASH cartridge	16MB Compact FLASH (minimum) (Field replaceable FLASH Disk)
I/O Ports	Serial Ethernet; (NE 2000 compatible) Parallel Expansion Slots	(1) RS232/422/485 (non-isolated) (1) RS232 (non-isolated) 10 MBPS; 10Base-T with RJ45 connector IBM Parallel PC/104 (16 bit)
User Interface	Function Key Numeric Key Touchscreen Keyboard Port Mouse	On Screen On Screen Yes (analog resistive) IBM AT with Y-cable IBM AT with Y-cable
Package	Designed for Temperature Range Rel. Humidity Vibration Shock Weight Overall Size	NEMA 4, 4X 0-45 C (non-condensing) 5-95% 10-150 Hz, 1G 10G, 11 msec (operating) 30G, 11 msec (non-operating) 3.3 lbs. (1.5 Kg) (HxWxD) 7.7" x 5.6" x 3.2" (194.7 x 142.7 x 81 mm)
Power Requirements	AC Maximum Power Consumption DC Maximum Power Consumption	90-260 VAC; 50/60 Hz; (Ext.Opt.) 50 Watts max. 18-30 VDC 25 Watts
Agency Approval	CE; UL/CUL;	(Class I Division 2 - Available as option on DC units only)



Ordering Information

(See MachineShop section for information about ordering development software.)



P1 Common Configurations	
Description	Model #
Mono LCD - FLASH	P11-014DR
Color STN - FLASH	P11-314DR

P1 Factory-Installed (or User-Installed) Hardware Accessories	
Description	Model #
PC/104 Installation Kit for a single PC/104 card	P11-PC104
PC/104 Installation Kit for two PC/104 cards	P12-PC104
PC/104 Installation Kit for three PC/104 cards	P13-PC104
Class I, Div. 2 Approval for P1 Units	P11-FM01-A
Allen-Bradley 1771 Remote I/O Card and Driver	ABR-3205

P1H Configurations (2 Configurations Available)	
Description	Model #
Mono LCD - FLASH	P1H-014DR
Color STN - FLASH	P1H-314DR

Adding Options to an Existing P1H Runtime	
Description	Model #
P1H Upgrade to P1 (GMM, AMM)*	PP1-5160

* P1H Upgrade is for Runtime software only. MachineShop (MSP-1N00-P or equivalent) must be purchased/used to create AMM and GMM functionality.

MachineShop Basic HMI Package for P1H

The MachineShop Basic HMI Package includes one software development system for the Interact Panel Toolkit (PTM) and Interact Networking. This package is available with the purchase of a P1H PowerStation. It may be upgraded to a standard MachineShop Interact development system by purchasing an upgrade package that enables the use of Alarm Management and Graphic Monitoring Modules. When the MachineShop Basic HMI Package is ordered, development software for PTM and Networking Modules is included with a Compact Flash PCMCIA Adapter.

Description	Model #
P1H MachineShop Basic HMI Development (PTM, NET)	MSP-1NH0-P
Upgrade to Standard MachineShop HMI (GMM, AMM)	MOD-5060-H

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