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

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Parker Hannifin Corporation
Compumotor Division
compumotor.com

P1/P1H PowerStations

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

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Ordering Information

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

P	1	1	-		1		D	R	
Family	Touch only	Display		DRAM	Storage		Power	Interact	
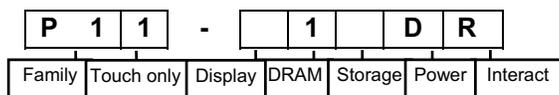
P1 Common Configurations	
Description	**Model #**
Mono LCD - FLASH	P11-014DR
Color STN - FLASH	P11-314DR

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 eqivalent) 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

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

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