

HMC2000 | Standard HMC Series











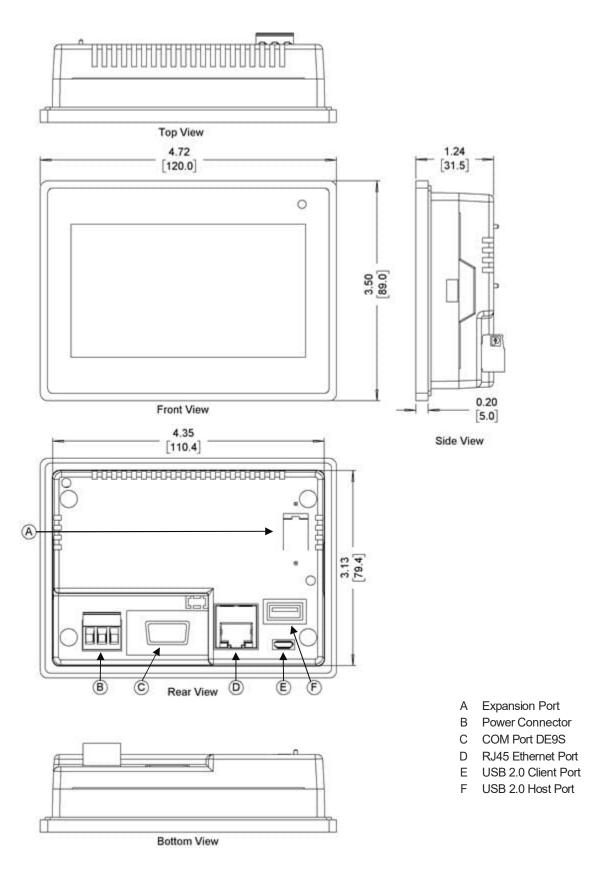


- Faster Processor
- Class 1, Division 2
- Up to 3 Discrete I/O Modules Supported
- Up to 800 x 480 Pixel Resolution (7.0" model)
- Ethernet and Serial Communication Options

CPU 32-bit RISC, 480 MHz		
Memory (RAM)		
Memory (User Application) 8 MB		
System Memory (Ladder Logic) 2 MB Memory (Alarms) 1350 Individual Alarms Memory (Retentive) 8000 Words Memory (Data Log) 4 MB Memory (Keep Registers) 1000 Words		
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Memory (Keep Registers) 1000 Words		
Touch Screen Type 4-wire resistive touch		
LAN 1 x 10/100 Base-T RJ-45		
CANbus N/A		
USB Host 1 x USB 2.0 USB Client 1 x USB 2.0 (Type C)		
AD 0 1011		
I/O Ports SD Card Slot 1 x Terminal block HDR 3.81 mm COM1: R		
1 v DE9S COM1: RS-232 COM2: RS-485.2 232/RS-485.2 wire or 4 wire		
Serial or 4 wire* 1 x DE9S COM2: RS-232/RS-485, 2 wire or		
wire		
Expansion 1 (for optional I/O module) 3 (for optional I/O modules)		
Display Type 4.3" WQVGA TFT 7" WVGA TFT Size (W x H) 3.70" x 2.1" [95 x 54 mm] 5.98" x 3.58" [152 x 91 mm]		
Max. Resolution 480 x 272 800 x 480		
Max Colors 16.7 M 16.7 M		
Display Luminance (cd/m²) 400 350		
View Angle (H°/V°) 115/115 140/120		
Contrast Ratio 500:1 500:1		
Backlight Lifetime (Hours) 25,000+ 25,000+		
Input Voltage 24 VDC +20%, -15% 24 VDC +20%, -15%		
Input Current 180 mA @ 24 VDC 250 mA @ 24 VDC		
Electrical (with 1 expansion) (with 3 expansions) Input Power 4.32 W 6 W		
Power Isolation N/A N/A		
Dimensions 4.72" x 3.50" x 1.24" 7.32" x 5.43" x 1.22"		
(W x H x D) [120 x 89 x 31.5 mm] [186 x 138 x 31 mm]		
Panel Cutout (W x H) 4.37" x 3.15" [111 x 80 mm] 6.89" x 5.00" [175 x 127 mm]		
Net Weight Approx. 0.44 lbs (.2 kg) Approx. 0.88 lbs (.4 kg) Enclosure Plastic, Dark Charcoal Grey		
PCB Coating N/A		
Mounting Panel		
Operating Temperature 32 ~ 122° F (0~50° C)		
Storage Temperature -4 ~ 185° F (-20 ~ 85° C)		
Relative Humidity 10 ~ 95% (non-condensing)		
Environmental Vibration Endurance 25 g acceleration for 11 ms		
Rating IP66 compliant front panel		
Certifications cULus (Class I, Div 2), CE, RoHS		
Software MAPware-7000 (v2.36 or later)		
* One DE9S port supports RS-232 and RS-485 on different pins. "Y" Type Splitter cable (Maple Systems P/N 7431-0122 -		
Sold Separately) can be used for separate RS-232 and RS-485 use simultaneously.		
Specifications subject to change without hotice.		

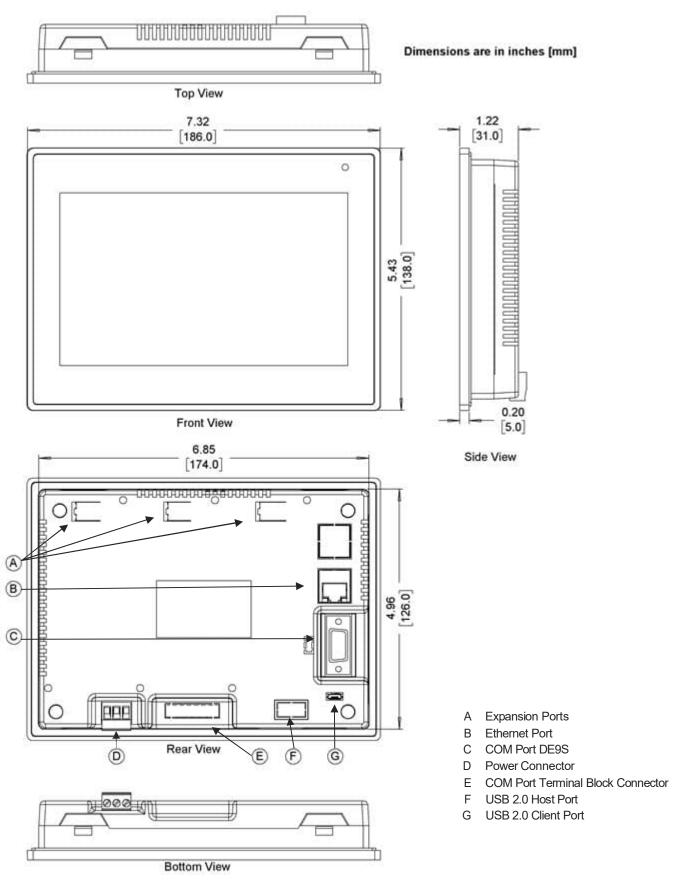


HMC2043A-M





HMC2070A-M



Industrial HMI+PLC | Standard Series

Why Buy A Maple HMI+PLC

In addition to our powerful and affordable hardware, we'll also continue to support your company long after a sale. Wide product selection, large in-stock inventory, outstanding product warranty, free technical support and software, and in-house repairs with quick turnaround times, Maple Systems has your business covered.



Class I, Division 2

We offer CID2 certified HMI+PLCs designed to keep operators and their environment safe. These combo units are being used in a potentially dangerous environment or around flammable hazards every day and are designed to prevent dangerous explosions and ensure worker safety.

Our CID2 HMI + PLCs are used in industries including oil and gas, mining, painting, chemical processing, pharmaceutical, food processing, and more.

We also have <u>CID2 HMIs</u>, and <u>CID2/</u> <u>Atex certified Industrial Panel PCs</u> and <u>Industrial Monitors</u>.

Add I/O to Customize

Our expandable HMI + PLC combines the ease of a graphic HMI with PLC functionality in one unit and one software. Add additional I/O modules to customized for your application.

When deciding on which HMI + PLC to choose, the number and type of I/O and the display size are the key differentiators and factors. Consider how many inputs (analog/digital) your program requires. Do you need separate analog and digital modules, or would a module with both analog and digital best meet your needs? With so many combinations to choose from, we probably have what you are looking for.

Build your SCADA

We offer all the components you need to create your own unique level of supervisory data acquisition and control, from the simplest stand-alone machine to sophisticated multi-device networked production line(s), all the way to enterprise-level operations and IIoT functionalities leveraging cloud connectivity.

Our products can help you standardize communications between devices, gluing different systems together for one source to your SCADA. No need to redesign your entire application. Keep the components that are already working for you, just add Maple Systems components to grow your abilities to supervise, control, and acquire data.

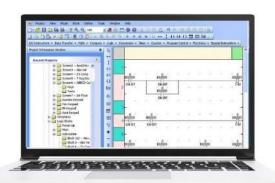
Power and Flexibility

HMI+PLC Configuration Software

MAPware-7000 is the configuration software used to program all our HMI+PLCs. Use just one software application to program both the screens that appear in the display as well as the logic that controls your system. Create projects using the tools and graphic images included with the software to provide a functional user-interface for your control system. In addition, the built-in or expandable I/O can be used to control and monitor your system utilizing the logic instructions integrated in the software.

Our HMI+PLCs support IEC61131-3 program language. The graphics program and logic program work together to provide complete control through the graphic interface. Learn more about the MAPware-7000 programming environment.





MAPware-7000 Logic Editing Mode

MAPware-7000 minimizes software development time by making it easy to design & program all aspects of your project in one environment. Stop worrying about if your HMI and PLC are communicating to each other, MAPware-7000 was created to eliminate this frustration and provides one interface to interact with your whole control system.

Connect the hardware using a protocol you know

Capable of a variety of communication protocols, our HMI+PLCs will easily integrate with your preferred PLC brand Including Maple Systems, Allen-Bradley, Siemens, Omron, ABB, Keyence, Panasonic, and Mitsubishi, creating a powerful edge gateway at a great price has never been easier.

Ethernet capable HMI+PLCs are configured as a Modbus TCP Server by default, and can easily be configured as a Modbus Client on serial or Ethernet networks.

See the full list of supported controller manufacturers



Allen-Bradley



KEYENCE

BALDOR

SIEMENS

OMRON

Panasonic



lodbus

MITSUBISHI

HMI+PLC Feature Overview		
Standard HMI+PLC	Advanced HMI+PLC	
Alarm & Event Messages	Alarm & Event Messages	
Application Memory Status	Application Memory Status	
ASCII Characters	ASCII Characters	
Bar Graphs	Bar Graphs	
Combo Button	Combo Button	
Data Logging and Trend Graphs	Data Logging and Trend Graphs	
Data Monitor	Data Monitor	
Data Sampling	Data Sampling	
Data Window	Data Window	
Expandable IO	Expandable IO	
FTP Client	FTP Client	
Functional Graphics	Functional Graphics	
IEC61131.3	IEC61131.3	
Importing and Exporting Tags	Importing and Exporting Tags	
Library - Pictures	Library - Pictures	
Library - Tags	Library - Tags	
Logic Blocks	Logic Blocks	
Meters and Bar Graphs	Meters and Bar Graphs	
Objects - Bit/Coil Based	Objects – Bit/Coil Based	
Objects – Register-based	Objects – Register-based	
Objects – Tag Based	Objects – Tag Based	
Offline Simulation	Offline Simulation	
PLC Ladder Logic	PLC Ladder Logic	
Real Time XY Plots	Real Time XY Plots	
Real-Time Clock	Real-Time Clock	
Real-Time Monitoring	Real-Time Monitoring	
Recipes	Recipes	
Security and Passwords	Security and Passwords	
Tag Database	Tag Database	
Tasks - Action, Trigger	Tasks - Action, Trigger	
	Barcode Scanner	
	Custom Start Screen	
	MQTT - Publisher	
	MQTT - Subscriber	
	Remote Access	
	USB Disk Download	
	VNC Server	
	Email	
	FTP Server	
	Internal Settings Menu	