

HMC4000 | HMC Advanced Series



MQTI Modbus V2



4.3" ~ 10.1" Touchscreen HMI + PLC OVISION 2 CE LISTED CE





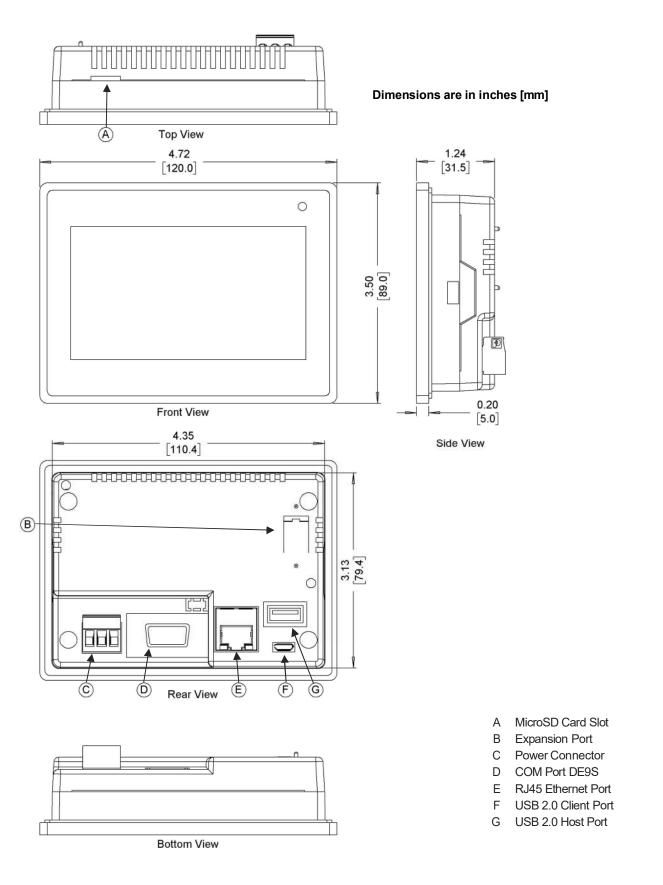


- Robust 4GB Flash Memory, 512MB RAM
- Up to 5 Discrete I/O Modules Supported
- Up to 1024 x 600 Pixel Resolution (10.1" model)
- Web Server, Ethernet, and Serial Communication
- IP66 Rated for Washdown Environments

System	CPU	32-bit RISC, 528 MHz			
	Memory (Flash)	4 GB			
	Memory (RAM)	512 MB			
	Memory (Data Log)	50 MB			
	Memory (User Application) (Ladder Logic) (Alarms) (Retentive) (Keep Registers)	1 GB combined			
	RTC	Built-in			
Touch Screen	Туре	4-wire resistive touch			
I/O Ports	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) 1 x Secure Digital Memory Card (SD/SDHC) socket (32GB max. capacity)			
	SD Card Slot	1 x Secure Digital		et (32GB max. capacity)	
	Serial	1 x DE9S COM1: RS-232, COM2: RS-485 2 or 4 wire*	1 x Terminal block HDR 3.81 mm COM1: RS-232/RS-485, 2 wire or 4 wire 1 x DE9S COM2: RS- 232/RS-485, 2 wire or 4 wire	1 x DE9S COM1: RS-232/RS- 485, 2 wire or 4 wire 1 x DE9S COM2: RS-232/RS- 485, 2 wire or 4 wire	
	Expansion	1 (for optional I/O module)	3 (for optional I/O modules)	5 (for optional I/O modules)	
	Display Type	4.3" WQVGA TFT	7" WVGA TFT	10.1" WSVGA TFT	
	Size (W x H)	3.70" x 2.1" [95 x 54 mm]	5.98" x 3.58" [152 x 91 mm]	8.74" x 5.24" [222 x 133 mm]	
	Max. Resolution	480 x 272	800 x 480	1024 x 600	
Dieplay	Max. Colors	16.7 M	16.7 M	16.7 M	
Display Electrical	Luminance (cd/m²)	400	350	350	
	View Angle (H°/V°)	115/115	140/120	140/120	
	Contrast Ratio	500:1	500:1	500:1	
	Backlight Lifetime (Hours)	25,000+	25,000+	25,000+	
	Input Voltage	24 VDC ±15%	24 VDC ±15%	24 VDC ±15%	
	Input Current (Base only)	160 mA @ 24 VDC	220 mA @24 VDC	270 mA @24 VDC	
	Input Power (Base Only)	3.84 W	5.28 W	6.48 W	
	Input Current w/Expansion(s)	210 mA @ 24 VDC (with 1 expansion)	370 mA @ 24 VDC (with 3 expansions)	520 mA @ 24 VDC (with 5 expansions)	
	Input Power w/Expansion(s)	5.04 W	8.88 W	12.48 W	
	Power Isolation			Yes	
		Yes	Yes 7 00" 5 40" 4 00"		
Mechanical Environmental	Dimensions (W x H x D)	4.72" x 3.50" x 1.24" [120 x 89 x 31.5 mm]	7.32" x 5.43" x 1.22" [186 x 138 x 31 mm]	10.55 x 7.48 x 1.30" [268 x 190 x 33 mm]	
	,				
	Panel Cutout (W x H) Net Weight	4.37" x 3.15" [111 x 80 mm] Approx. 0.44 lbs (0.2 kg)	6.89" x 5.00" [175 x 127 mm] Approx. 0.88 lbs (0.4 kg)	10.08" x 7.01" [256 x 178 mm] Approx. 1.98 lbs (0.9 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)			
	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)	$\frac{1}{2}$			
Notes	* 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.				
	HMC4000 series units are compatible with all HMC3 I/O modules. Specifications subject to change without notice.				

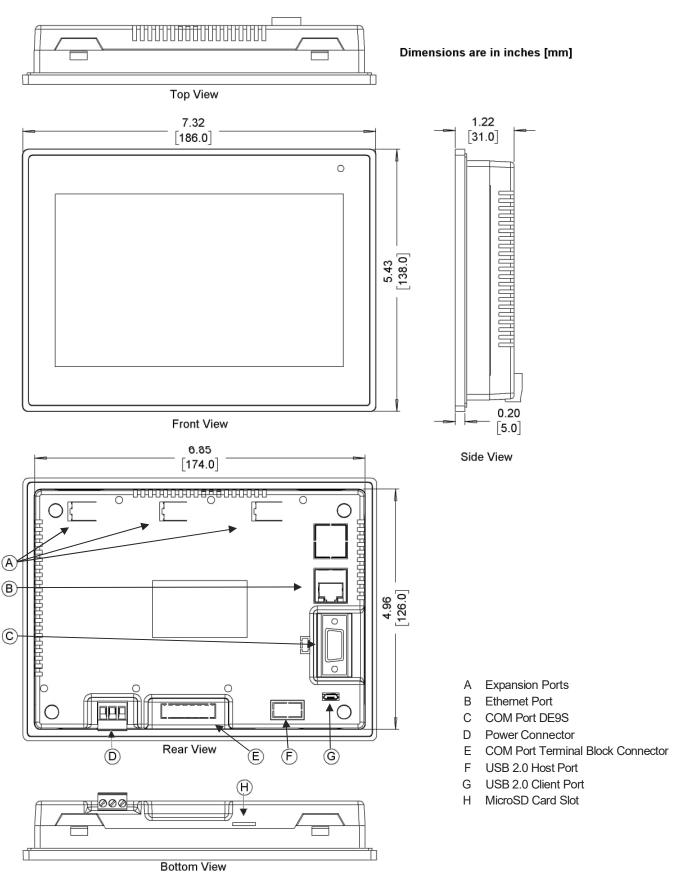


HMC4043A-M



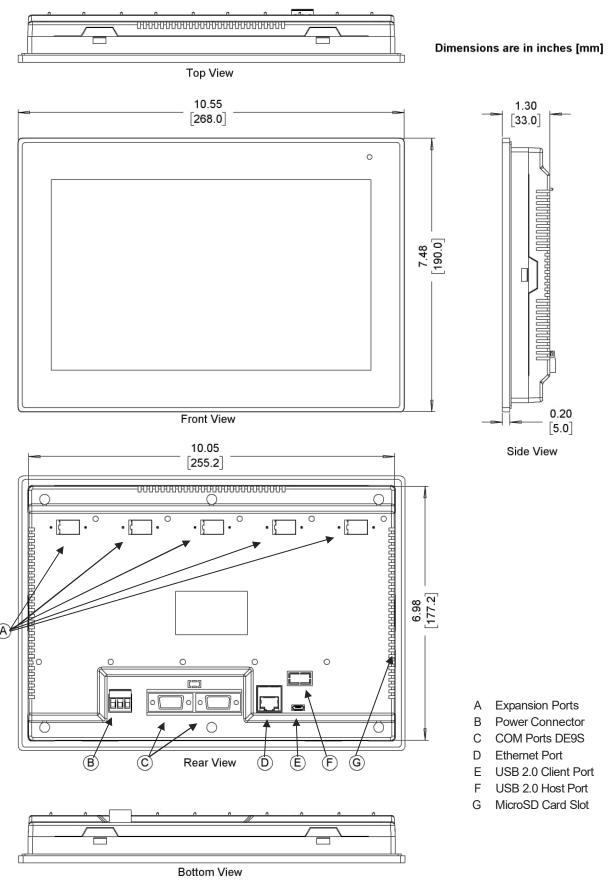


HMC4070A-M





HMC4101A-M



Industrial HMI+PLC | Advanced 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.

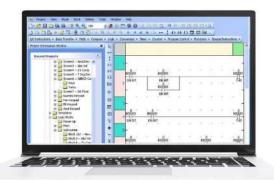
Power and Flexibility

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



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		