Maple Systems Advanced HMI Product Brochure

Powerful Industrial Control Solutions

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About Maple Systems

Maple Systems Specializes in Operator Interface Solutions

At Maple, we are committed to quality, reliability, and affordability. Our products deliver the quality you deserve, the reliability you demand, with a value that will drive your growth. Whether your customers are residential, commercial, or industrial; whether you create custom automation and integration solutions or manufacture products that require 21st century control, Maple Systems will add value and improve your user experience.

We Make Machine Control Easy

With modern touchscreens, unrivaled value and functionality, combined with intuitive software, Maple Systems provides a versatile offering of products to complement your machine's design:

- Touchscreen HMIs
- Smart HMIs for the IIoT
- HMI + PLCs
- Light Industrial Panel PCs
- Heavy Industrial Panel PCs
- Text-Based Alphanumeric OITs

Best-Value Products

Our goal is to offer high-quality control solutions at affordable prices. We strive for continuous product improvement by being experts in our field, employing the latest technologies, and ensuring that every product is fully tested and inspected before leaving our facility. Paired with an outstanding support team and comprehensive technical website, you'll see that Maple Systems truly is *your* industrial control solution.

Contact Us Today

We invite you to explore our product offerings and contact us to discuss how Maple Systems can help solve and support your automation and control needs:

Phone: 425-745-3229
Email: info@maplesystems.com
Web: www.maplesystems.com

HMI Overview

Overview

Maple Systems offers three versatile HMI lines to meet your control and budget needs: Basic, Advanced, and Smart HMIs.

All Maple HMIs feature bright displays, high quality enclosures, the latest microprocessors, and support nearly over 300 protocols.

Maple HMIs complement any machine design and are available in sizes ranging from 4.3 inches to 15 inches.

Maple Systems HMI Series

Maple Systems offers three HMI lines designed to meet your control needs:

Basic HMI Series

Maple Systems Basic HMI series offers a great solution for organizations focused on cost-driven and OEM-related projects. Maple Basic HMIs provide standard HMI features and solid performance at the lowest price.

Advanced HMI Series

Our Advanced HMI series offers the BEST value in today's Human Machine Interface marketplace. Enjoy enhanced data handling features, trusted performance, affordable pricing, and unparalleled support.

Smart HMI Series

Our Smart HMI series of innovative and IIoT-ready solutions enable easy monitoring of your industrial environment. These smart factory and connected devices support many IIoT protocols including MQTT, OPC UA, and MySQL.

Maple's HMIs are used worldwide for diverse applications and are designed to meet your automation needs.

Maple Systems HMIs

Advanced HMI

Overview

Maple Systems Advanced HMIs offer robust features, high-quality components, fast processors, and affordable pricing.

These high functioning HMIs are perfect for any project or industry. Most Advanced HMIs are IIoT-Ready, making it easier to connect to factory equipment.

All Advanced HMIs are backed by our comprehensive technical support and a two year warranty.

Maple Systems
Advanced HMI Series

Maple Systems Advanced HMI series offers the best value in today's HMI marketplace with benefits including modern touchscreens, intuitive software, and great functionality. Enjoy enhanced features, trusted performance, affordable pricing, and unparalleled support to meet your most demanding automation needs.

The Advanced HMI series offers the following hardware features:

- 4.3", 7", 9.7", 10.1", 12.1" and 15" models
- Single and dual-Ethernet models available
- All sizes offer cULus listing
- IP65/NEMA 4X protection rating
- CE and RoHS certified
- 32-bit RISC Cortex A8 and A9 CPUs
- USB, SD card, and internal memory storage

Maple's Advanced HMIs are designed to meet your most demanding automation needs.

Advanced HMI Series

Features

Advanced HMI Series

Maple Systems Advanced HMIs provide a great balance of enhanced features and price for control in any industry.

Benefits of Advanced HMIs

Maple Systems Advanced HMIs take industrial automation and control to the next level by offering enhanced features to meet your most demanding automation needs. These units are used across many industries including packaging, food and beverage, oil and gas, medical, pharmaceutical, and more.

The Advanced HMI series uses the same HMI configuration software as Maple's Basic series, but with many enhanced software features for the Advanced series such as data handling, security, recipe management, email notifications, and more.

In addition, Advanced HMI users benefit from several additional features in the configuration software such as recipe management and email notifications.

Added Features in the Advanced HMI Series

- Extended 2 year warranty
- Support for the Industrial Internet of Things, including MQTT protocol
- Class I, Division 2 HMI options available
- Dual-Ethernet models available
- Wi-Fi option available
- Utilizes most HMI features in Maple's easy-to-use configuration software
- Most Advanced HMIs are UL listed
- All models are IP65/NEMA 4X, CE, and RoHS certified
- CANbus available on select models
- Offers flow block animation, animated gifs, pie charts, and circular trend display

Advanced Data Handling and Display

In addition to the data functionality our Basic series offers, Maple's Advanced series includes data logging, sampling, and management. Data logging files can be created for a batch process, daily run, or multiple days.

- Capture data based upon time or triggered events
- Store data and screenshots in the HMI
- Display data as historical events, alarms, trends, and recipes

Data log files can be backed up from the HMI to a networked server, sent from the HMI via email, uploaded via the HMI's built-in FTP server, or saved to USB disk.

Security

Maple Systems configuration software offers complete operational and project security. Prevent unauthorized access to projects, screens, or objects using alphanumeric passwords. Add/delete accounts, modify privileges, or reset passwords during HMI operation.

Utilize a USB security key to log in users when the key is connected to the HMI. USB security keys take the place of a mag strip or RFID reader.

Recipe Management

The recipe feature creates presets in the HMI for different batch processes. Manage batch processes and easily select different batch variables to download to the PLC. Multiple recipes or values can be used to attain desired results — all with one click of a button.

Email and Text Notifications

Critical alarm notifications can be sent from the HMI to key personnel via SMS text messages or email. An email can include the data log files or a screenshot of an HMI window showing relevant data.

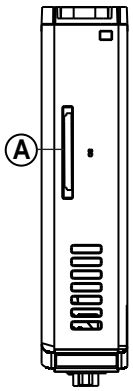
Advanced features & affordable prices for *any* machine

HDMI-Compatible HMI

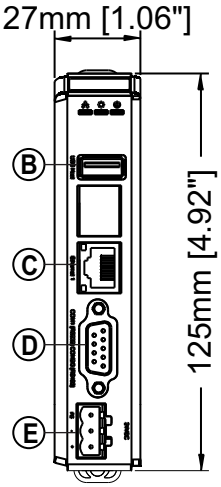
- HD 720P High Resolution HDMI Output to TVs and Monitors
- 32-bit RISC Cortex-A8, 600 MHz CPU
- 256MB Flash Memory, 256MB RAM
- 3 Serial Ports
- Does Not Come with Display

System	**CPU**	32-bit RISC Cortex-A8, 600 MHz
	Memory (RAM)	256 MB
	Memory (Flash)	256 MB
	RTC	Built-in
I/O Ports	**Serial Ports**	1 x DE9P COM1: RS-232, COM2: RS-485 2 or 4 wire, COM3: RS-485 2 wire
		N/A
	Ethernet	1 x 10/100/1000 Base-T
	CANbus	N/A
	USB Host	1 x USB 2.0
	USB Client	N/A
	Audio	HDMI Audio Output
	Video	N/A
	Wi-Fi	N/A
	HDMI	1 HDMI port, 1280 x 720 pixel resolution
	SD Card Slot	SD/SDHC
Display	**Display Type**	N/A
	Size (W x H)	N/A
	Resolution (pixels)	N/A
	Luminance (cd/m²)	N/A
	Contrast Ratio	N/A
	Max. Colors	N/A
	LED Backlight Longevity Hrs.	N/A
Touch Screen	**Type**	N/A
	Active Area Accuracy	N/A
Electrical	**Input Voltage**	24 ± 20% VDC
	Input Current	230 mA @ 24 VDC
	Power Isolation	Built-in
	Isolation Resistance	Exceed 50 MΩ at 500 VDC
Mechanical	**Enclosure**	Plastic, charcoal grey
	PCB Coating	Yes
	Dimensions (W x H x D)	5.12 x 4.53 x 1.06 inches [130 x 115 x 27 mm]
	Weight	0.40 lbs. [0.18 kg]
	Mounting	35 mm DIN rail mounting
Environmental	**Operating Temperature**	-4° ~ 131°F (-20° ~ 55°C)
	Storage Temperature	-4° ~ 158°F (-20° ~ 70°C)
	Relative Humidity	10% ~ 90% (non-condensing)
	Vibration Endurance	10 to 25 Hz (X, Y, Z direction, 2G, 30 minutes)
	Rating	IP20
	Certifications	cULus, CE, RoHS
Software	EZwarePlus (v4.00.01 or later)	
Notes		

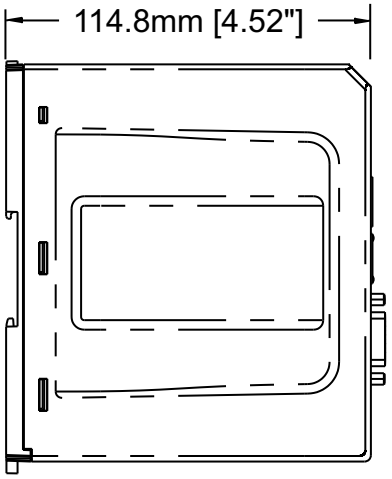
Maple Systems, Inc.	Dimensional Outline: RMI5001



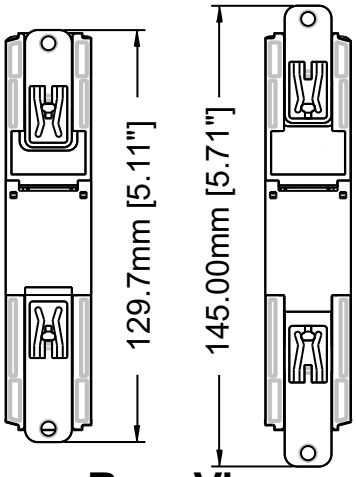
Top View



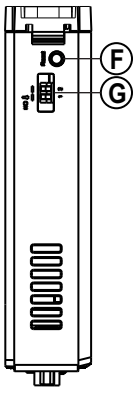
Front View



Side View



Rear View



Bottom View

Ⓐ SD card slot
Ⓑ USB 2.0 host port
Ⓒ Ethernet port
Ⓓ DE9P COM port
Ⓔ Power plug
Ⓕ Reset button
Ⓖ DIP switches

4.3” Light Grey Industrial HMI
4.3” Dark Grey Industrial HMI

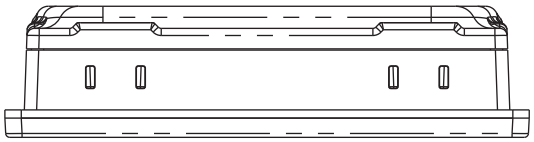
- 480 x 272 Pixel Resolution TFT
- 600MHz RISC CPU
- Ethernet
- 2 Serial Ports

System	**CPU**	32-bit RISC Cortex-A8, 600 MHz
	Memory (RAM)	128 MB
	Memory (Flash)	128 MB
	RTC	Built-in
I/O Ports	**Serial**	1 x DE9P COM1: RS-232/RS-485 2 or 4 wire, COM3: RS-485 2 wire
		N/A
	Ethernet	1 x 10/100 Base-T
	CANbus	N/A
	USB Host	1 x USB 2.0
	USB Client	N/A
	Audio	N/A
	Video	N/A
	Wi-Fi	N/A
	HDMI	N/A
	SD Card Slot	N/A
Display	**Display Type**	4.3” TFT LCD
	Size (W x H)	3.70 x 2.10 inches [95 x 54 mm]
	Resolution (pixels)	480 x 272
	Luminance (cd/m²)	400
	Contrast Ratio	500:1
	Max. Colors	16.7 M
	Backlight Lifetime (hours)	30,000+
Touch Screen	**Type**	4-wire resistive touch
	Active Area Accuracy	Length (X) ± 2%, width (Y) ± 2%
Electrical	**Input Voltage**	24 ± 20% VDC
	Input Current	400 mA @ 24 VDC
	Power Isolation	Built-in
	Isolation Resistance	Exceed 50 MΩ at 500 VDC
Mechanical	**Enclosure**	Plastic
	PCB Coating	Yes
	Dimensions (W x H x D)	5.04 x 4.02 x 1.26 inches [128 x 102 x 32 mm]
	Weight	0.55 lbs. [0.25 kg]
	Mounting	Panel mounting
Environmental	**Operating Temperature**	32° ~ 122° F (0° ~ 50° C)
	Storage Temperature	-4° ~ 140° F (-20° ~ 60° C)
	Relative Humidity	10% ~ 90% (non-condensing)
	Vibration Endurance	10 to 25 Hz (X, Y, Z direction, 2 G, 30 minutes)
	Ratings	IP65 compliant front panel, NEMA 4X indoor use only
	Certifications	cULus, CE, RoHS
Software	EZwarePlus (v4.00.01 or later)	
Notes		

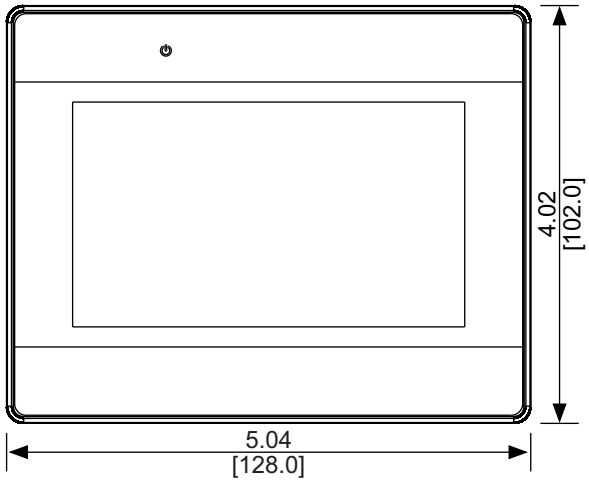
Maple Systems, Inc.

Dimensional Outline: HMI5043L/LB

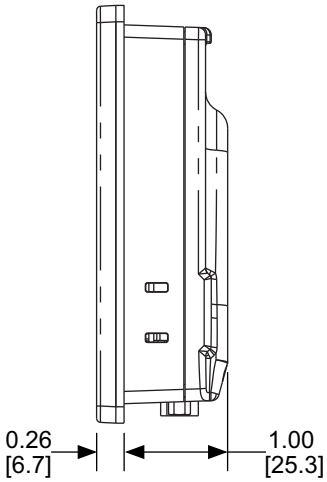
Top View



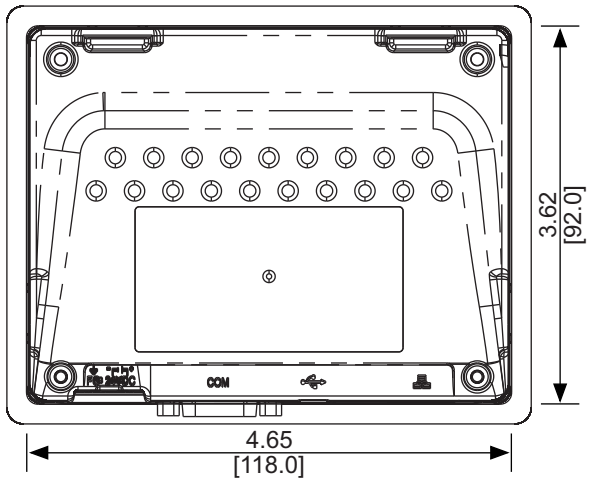
Front View



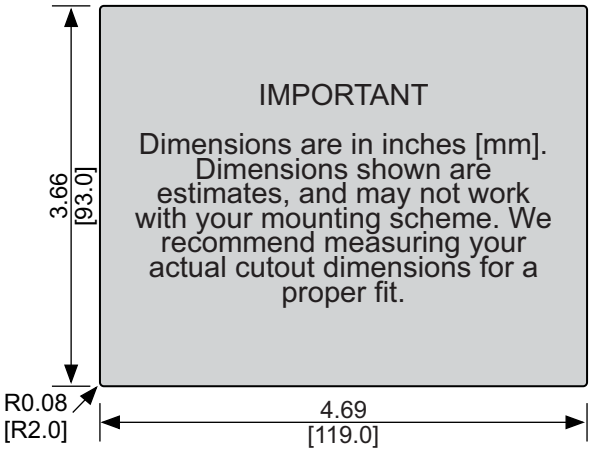
Side View



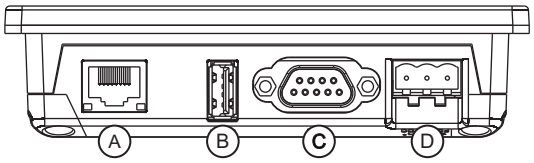
Rear View



Cutout Dimensions



Bottom View



Dimensions are in inches [mm]

Ⓐ Ethernet Port Ⓑ USB 2.0 Host Port Ⓒ Com Port DE9P Ⓓ Power Connector

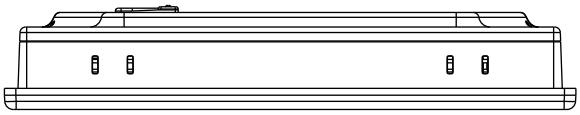
7" Light Grey Industrial HMI
7" Dark Grey Industrial HMI

	HMI5070L	HMI5070LB	HMI5071L
COLOR	Light Grey	Dark Grey	Light Grey
CLASS 1, DIV 2	Yes	Yes	No

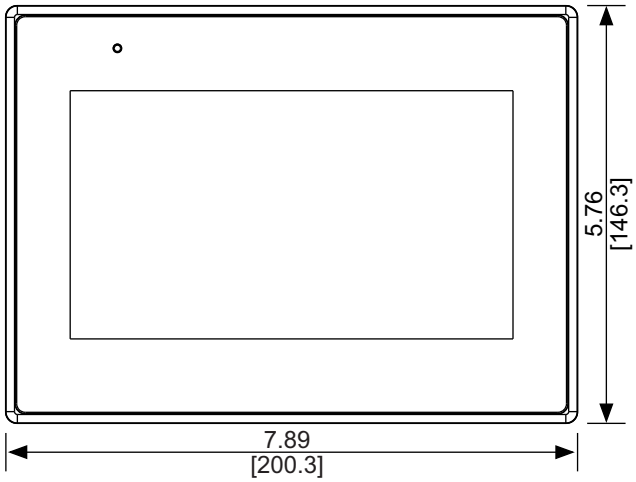
System	**CPU**	32-bit RISC Cortex-A8, 600 MHz
	Memory (RAM)	128 MB
	Memory (Flash)	128 MB
	RTC	Built-in
I/O Ports	**Serial**	1 x DE9P COM1: RS-232
		1 x DE9S COM1: RS-485 2 or 4 wire, COM3: RS-485 2 wire
	Ethernet	1 x 10/100 Base-T
	CANbus	N/A
	USB Host	1 x USB 2.0
	USB Client	N/A
	Audio	N/A
	Video	N/A
	Wi-Fi	N/A
	HDMI	N/A
	SD Card Slot	N/A
Display	**Display Type**	7" TFT LCD
	Size (W x H)	6.11 x 3.42 inches [155 x 87 mm]
	Resolution (pixels)	800 x 480
	Luminance (cd/m²)	350
	Contrast Ratio	500:1
	Max. Colors	16 M
	Backlight Lifetime (hours)	30,000+
Touch Screen	**Type**	4-wire resistive touch
	Active Area Accuracy	Length (X) ± 2%, width (Y) ± 2%
Electrical	**Input Voltage**	24 ± 20% VDC
	Input Current	350 mA @ 24 VDC
	Power Isolation	N/A
	Isolation Resistance	Exceed 50 MΩ at 500 VDC
Mechanical	**Enclosure**	Plastic
	PCB Coating	Yes
	Dimensions (W x H x D)	7.89 x 5.76 x 1.34 inches [200 x 146 x 34 mm]
	Weight	1.32 lbs. [0.6 kg]
	Mounting	Panel mounting
Environmental	**Operating Temperature**	32° ~ 122° F (0° ~ 50° C)
	Storage Temperature	-4° ~ 140° F (-20° ~ 60° C)
	Relative Humidity	10% ~ 90% (non-condensing)
	Vibration Endurance	10 to 25 Hz (X, Y, Z direction, 2 G, 30 minutes)
	Ratings	IP65 compliant front panel, NEMA 4X indoor use only
	Certifications	cULus, CE, RoHS
Software	EZwarePlus (v4.00.01 or later)	
Notes		

Maple Systems, Inc.	Dimensional Outline: HMI5070L/LB & HMI5071L

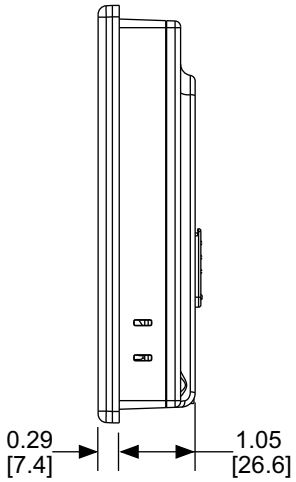
Top View



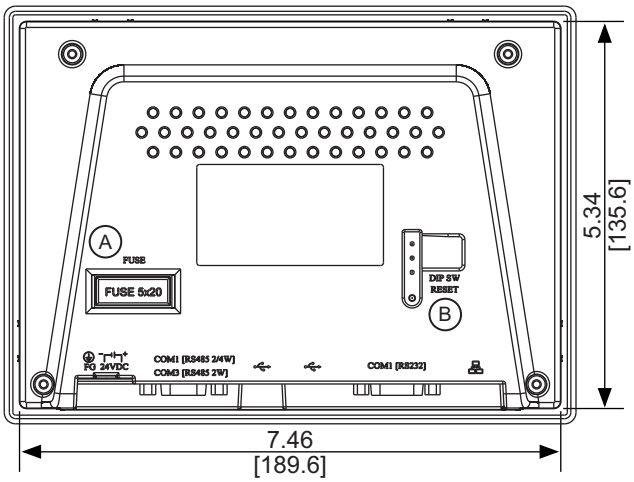
Front View



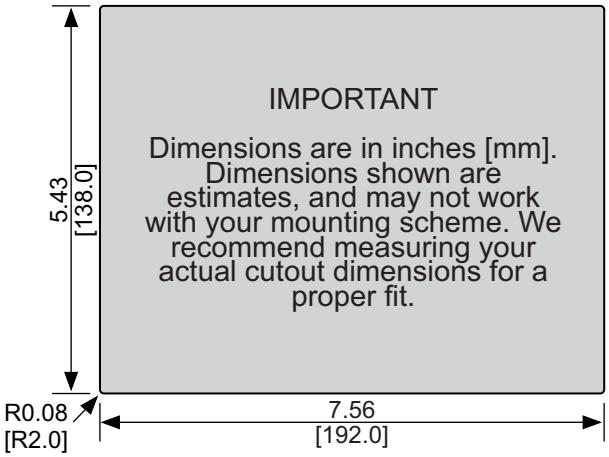
Side View



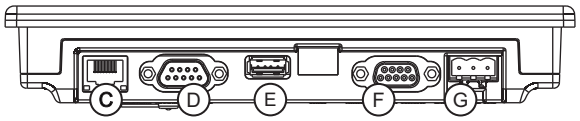
Rear View



Cutout Dimensions



Bottom View



Dimensions are in inches [mm]

Ⓐ Fuse
Ⓑ DIP Switches
Ⓒ Ethernet Port
Ⓓ Com Port DE9P
Ⓔ USB 2.0 Host Port
Ⓕ Com Port DE9S
Ⓖ Power Connector

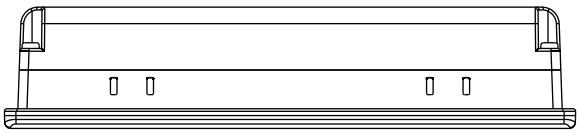
7" Widescreen HMI with Ethernet

- 800 x 480 Pixel Resolution
- 256MB DRAM
- Ethernet
- 2 Serial Ports + 1 CANbus Port

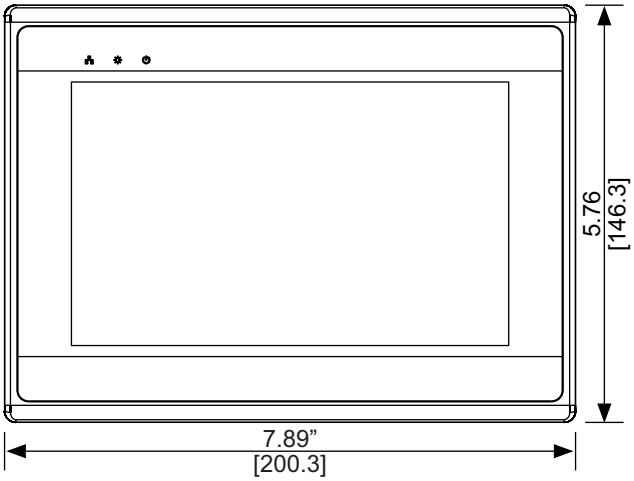
System	**CPU**	32-bit RISC Cortex-A8, 1 GHz
	Memory (RAM)	256 MB
	Memory (Flash)	256 MB
	RTC	Built-in
I/O Ports	**Serial**	1 x DE9P COM1: RS-232, COM3: RS-232*
		1 x DE9S COM1: RS-485 2 or 4 wire, COM3: RS-485 2 wire
	Ethernet	1 x 10/100 Base-T
	CANbus	Yes
	USB Host	1 x USB 2.0
	USB Client	1 x micro USB 2.0
	Audio	1 x audio line out – 3.5 mm
	Video	N/A
	Wi-Fi	N/A
	HDMI	N/A
	SD Card Slot	SD/SDHC
Display	**Display Type**	7" TFT LCD
	Size (W x H)	6.04 x 3.64 inches [153 x 92 mm]
	Resolution (pixels)	800 x 480
	Luminance (cd/m²)	500
	Contrast Ratio	500:1
	Max. Colors	16.7 M
	Backlight Lifetime (hours)	30,000+
Touch Screen	**Type**	4-wire resistive touch
	Active Area Accuracy	Length (X) ± 2%, width (Y) ± 2%
Electrical	**Input Voltage**	24 ± 20% VDC
	Input Current	400 mA @ 24 VDC
	Power Isolation	Built-in
	Isolation Resistance	Exceed 50 MΩ at 500 VDC
Mechanical	**Enclosure**	Aluminum, charcoal grey
	PCB Coating	Yes
	Dimensions (W x H x D)	7.89 x 5.76 x 1.67 inches [200 x 146 x 43 mm]
	Weight	1.98 lbs. [0.9 kg]
	Mounting	Panel mounting
Environmental	**Operating Temperature**	-4° ~ 122° F (-20° ~ 50° C)
	Storage Temperature	-4° ~ 158° F (-20° ~ 70° C)
	Relative Humidity	10% ~ 90% (non-condensing)
	Vibration Endurance	10 to 25 Hz (X, Y, Z direction, 2 G, 30 minutes)
	Ratings	IP66 compliant front panel, NEMA 4X indoor use only
	Certifications	cULus, CE, RoHS
Software	EZwarePlus (v4.00.01 or later)	
Notes	*RTS/CTS cannot be used for COM1 RS-232 while COM3 RS-232 is in use.	

Maple Systems, Inc.	Dimensional Outline: HMI5070P

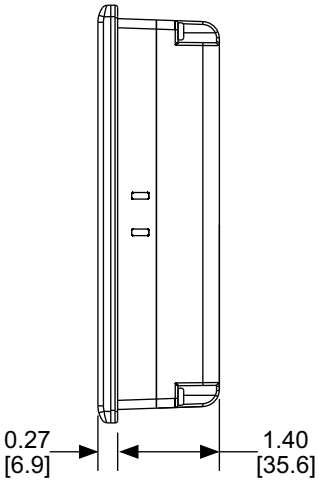
Top View



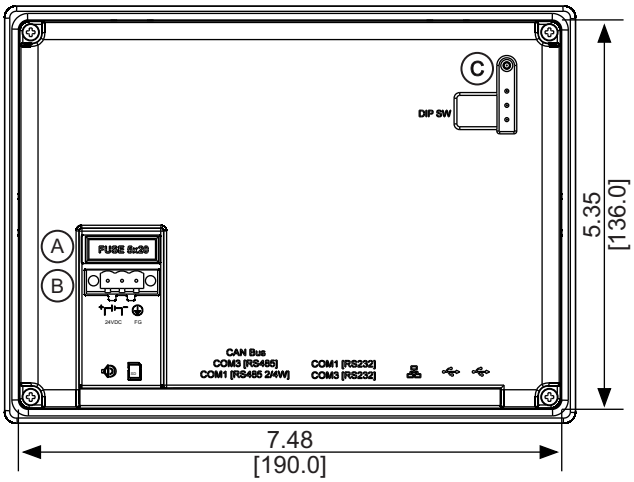
Front View



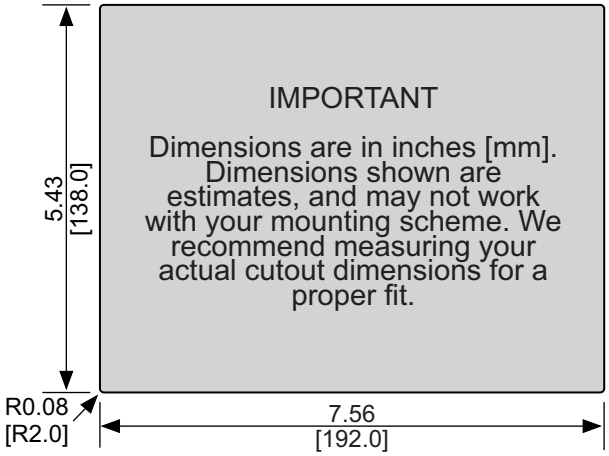
Side View



Rear View



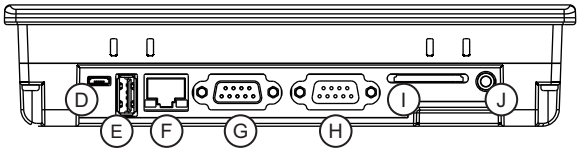
Cutout Dimensions



IMPORTANT

Dimensions are in inches [mm]. Dimensions shown are estimates, and may not work with your mounting scheme. We recommend measuring your actual cutout dimensions for a proper fit.

Bottom View



Dimensions are in inches [mm]

Ⓐ Fuse
Ⓑ Power Connector
Ⓒ DIP Switches
Ⓓ Micro USB 2.0 Port
Ⓔ USB 2.0 Host Port
Ⓕ Ethernet Port
Ⓖ Com Port DE9P
Ⓗ Com Port DE9S
Ⓘ SD Card Slot
Ⓙ Line out

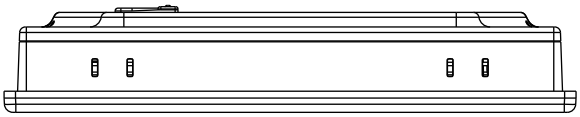
7” Dual-Ethernet Industrial HMI

- 800 x 480 Pixel Resolution
- 2 Ethernet Ports
- 2 Serial Ports
- 1 USB Host Port

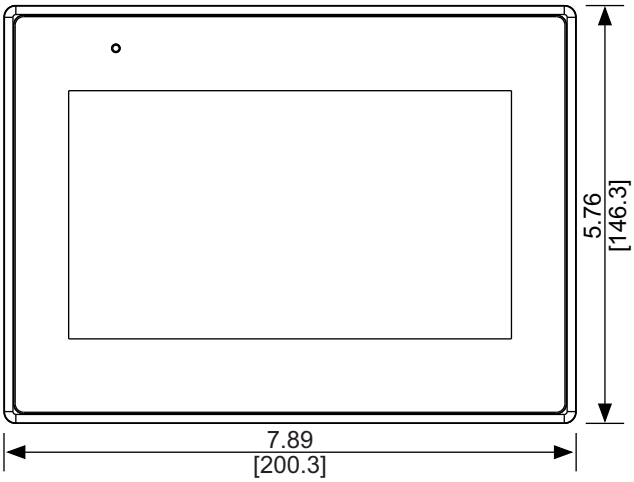
System	**CPU**	32-bit RISC Cortex-A8, 600 MHz
	Memory (RAM)	128 MB
	Memory (Flash)	128 MB
	RTC	Built-in
I/O Ports	**Serial**	1 x DE9P COM1: RS-232, COM3: RS-232*
		1 x DE9S COM2: RS-485 2 or 4 wire, COM3: RS-485 2 wire
	Ethernet	2 x 10/100/1000 Base-T
	CANbus	N/A
	USB Host	1 x USB 2.0
	USB Client	N/A
	Audio	N/A
	Video	N/A
	Wi-Fi	N/A
	HDMI	N/A
	SD Card Slot	N/A
Display	**Display Type**	7” TFT LCD
	Size (W x H)	6.07 x 3.42 inches [155 x 87 mm]
	Resolution (pixels)	800 x 480
	Luminance (cd/m²)	400
	Contrast Ratio	500:1
	Max. Colors	16.7 M
	Backlight Lifetime (hours)	30,000+
Touch Screen	**Type**	4-wire resistive touch
	Active Area Accuracy	Length (X) ± 2%, width (Y) ± 2%
Electrical	**Input Voltage**	24 ± 20% VDC
	Input Current	600 mA @ 24 VDC
	Power Isolation	Built-in
	Isolation Resistance	Exceed 50 MΩ at 500 VDC
Mechanical	**Enclosure**	Plastic, light grey
	PCB Coating	Yes
	Dimensions (W x H x D)	7.89 x 5.76 x 1.34 inches [200 x 146 x 34 mm]
	Weight	1.32 lbs. [0.6 kg]
	Mounting	Panel mounting
Environmental	**Operating Temperature**	32° ~ 122° F (0° ~ 50° C)
	Storage Temperature	-4° ~ 140° F (-20° ~ 60° C)
	Relative Humidity	10% ~ 90% (non-condensing)
	Vibration Endurance	10 to 25 Hz (X, Y, Z direction, 2 G, 30 minutes)
	Ratings	IP65 compliant front panel, NEMA 4X indoor use only
	Certifications	cULus, CE, RoHS
Software	EZwarePlus (v4.00.01 or later) EasyAccess 2.0 license comes pre-installed	
Notes	*RTS/CTS cannot be used for COM1 RS-232 while COM3 RS-232 is in use.	

Maple Systems, Inc.	Dimensional Outline: HMI5070DL

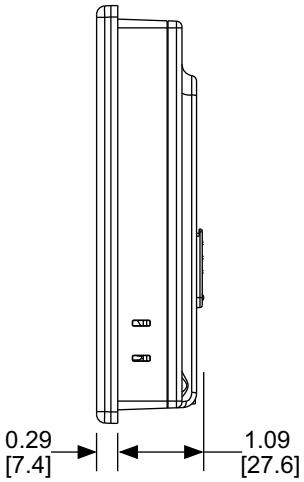
Top View



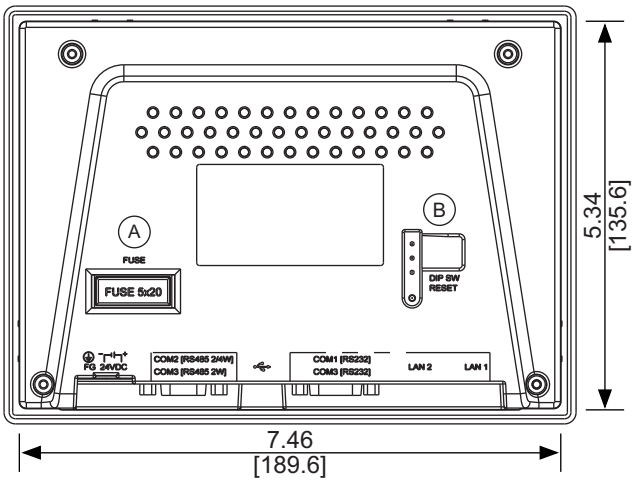
Front View



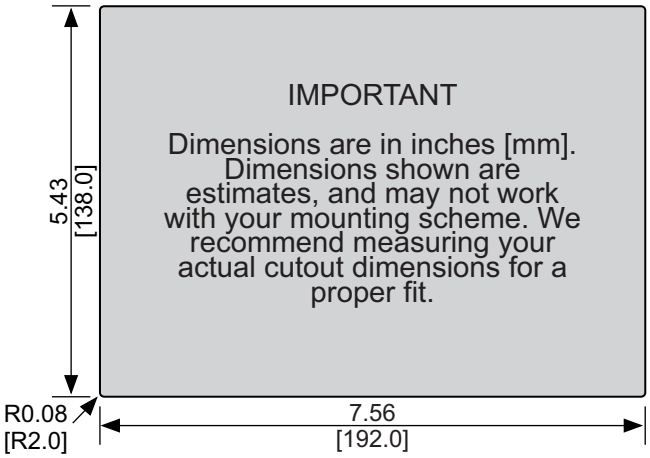
Side View



Rear View



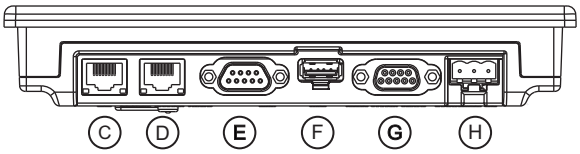
Cutout Dimensions



IMPORTANT

Dimensions are in inches [mm]. Dimensions shown are estimates, and may not work with your mounting scheme. We recommend measuring your actual cutout dimensions for a proper fit.

Bottom View



Dimensions are in inches [mm]

Ⓐ Fuse
Ⓑ DIP Switch
Ⓒ Ethernet Port
Ⓓ Ethernet Port
Ⓔ Com Port DE9P
Ⓕ USB 2.0 Host Port
Ⓖ Com Port DE9S
Ⓗ Power Connector

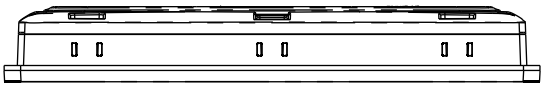
9.7” Dual-Ethernet HMI

- 1024 x 768 Pixel Resolution
- 2 Ethernet Ports
- 2 Serial Ports + 1 CANbus Port
- 1 USB Host Port

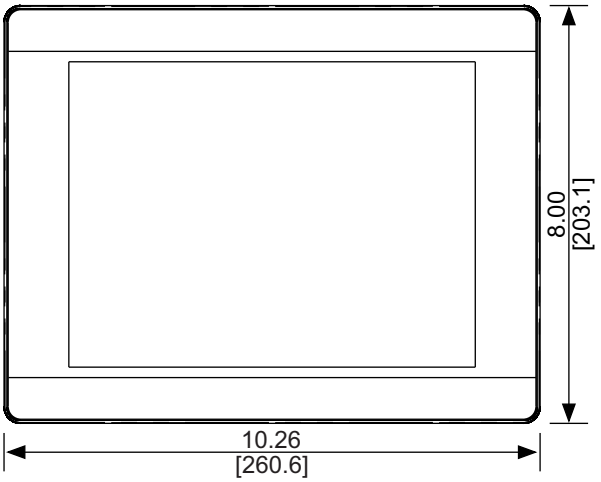
System	**CPU**	32-bit RISC Cortex-A8, 1 GHz
	Memory (RAM)	256 MB
	Memory (Flash)	512 MB
	RTC	Built-in
I/O Ports	**Serial**	1 x DE9P COM1: RS-232, COM3: RS232*
		1 x DE9S COM2: RS-485 2 or 4 wire, COM3: RS-485 2 wire
	Ethernet	2 x 10/100/1000 Base-T
	CANbus	Yes
	USB Host	1 x USB 2.0
	USB Client	N/A
	Audio	N/A
	Video	N/A
	Wi-Fi	N/A
	HDMI	N/A
	SD Card Slot	N/A
Display	**Display Type**	9.7” TFT LCD
	Size (W x H)	7.78 x 5.83 inches [198 x 148 mm]
	Resolution (pixels)	1024 x 768
	Luminance (cd/m²)	350
	Contrast Ratio	500:1
	Max. Colors	262 K
	Backlight Lifetime (hours)	30,000+
Touch Screen	**Type**	4-wire resistive touch
	Active Area Accuracy	Length (X) ± 2%, width (Y) ± 2%
Electrical	**Input Voltage**	24 ± 20% VDC
	Input Current	650 mA @ 24 VDC
	Power Isolation	Built-in
	Isolation Resistance	Exceed 50 MΩ at 500 VDC
Mechanical	**Enclosure**	Plastic, charcoal grey/silver
	PCB Coating	Yes
	Dimensions (W x H x D)	10.26 x 8.00 x 1.44 inches [261 x 203 x 37 mm]
	Weight	1.87 lbs. [0.85 kg]
	Mounting	Panel or VESA 75 x 75 mm mounting
Environmental	**Operating Temperature**	32° ~ 122° F (0° ~ 50° C)
	Storage Temperature	-4° ~ 140° F (-20° ~ 60° C)
	Relative Humidity	10% ~ 90% (non-condensing)
	Vibration Endurance	10 to 25 Hz (X, Y, Z direction, 2 G, 30 minutes)
	Ratings	IP65 compliant front panel, NEMA 4X indoor use only
	Certifications	cULus, CE, RoHS
Software	EZwarePlus (v4.00.01 or later) EasyAccess 2.0 license comes pre-installed	
Notes	*RTS/CTS cannot be used for COM1 RS-232 while COM3 RS-232 is in use.	

Maple Systems, Inc.	Dimensional Outline: HMI5097DXL

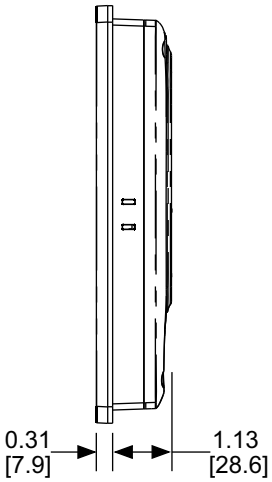
Top View



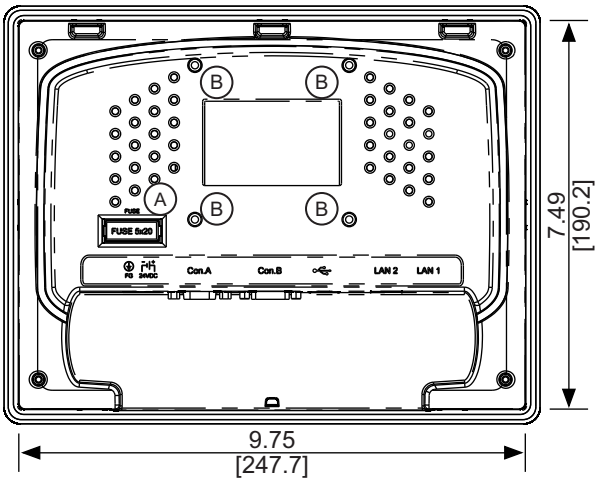
Front View



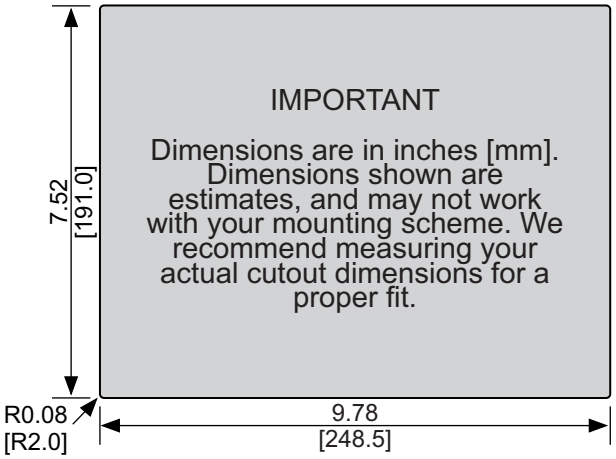
Side View



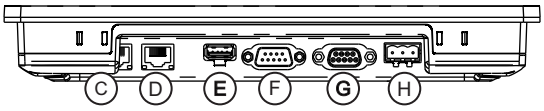
Rear View



Cutout Dimensions



Bottom View



Dimensions are in inches [mm]

Ⓐ Fuse
Ⓑ VESA Mount
Ⓒ Ethernet Port
Ⓓ Ethernet Port
Ⓔ USB 2.0 Host Port
Ⓕ Com Port DE9P
Ⓖ Com Port DE9S
Ⓗ Power Connector

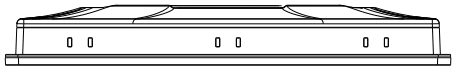
10.1” Light Gray HMI

	HMI5100L	HMI5102L	HMI5103L
RESOLUTION	800 x 480	1024 x 600	1024 x 600
Wi-Fi	No	No	Yes
EASYACCESS 2.0	No	No	Yes

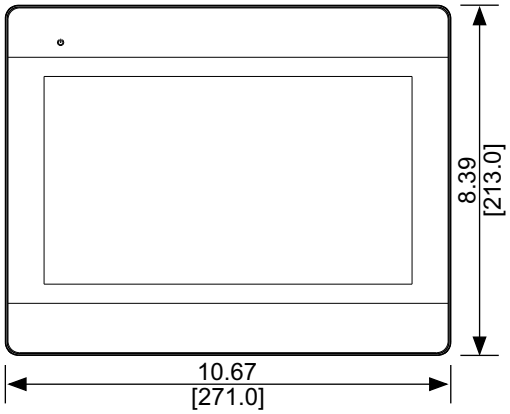
System	**CPU**	32-bit RISC Cortex-A8, 600 MHz
	Memory (RAM)	128 MB
	Memory (Flash)	128 MB
	RTC	Built-in
I/O Ports	**Serial**	1 x DE9P COM1: RS-232, COM3 RS-232*
		1 x DE9S COM2: RS-485 2 or 4 wire, COM3: RS-485 2 wire
	Ethernet	1 x 10/100 Base-T
	CANbus	N/A
	USB Host	1 x USB 2.0
	USB Client	N/A
	Audio	N/A
	Video	N/A
	Wi-Fi	IEEE 802.11 b/g/n, WPA-PSK/WPA2-PSK encryption
	HDMI	N/A
	SD Card Slot	N/A
Display	**Display Type**	10.1” TFT LCD
	Size (W x H)	8.70 x 5.12 inches [221 x 130 mm]
	Resolution (pixels)	1024 x 600
	Luminance (cd/m²)	350
	Contrast Ratio	500:1
	Max. Colors	16.7 M
	Backlight Lifetime (hours)	50,000+
Touch Screen	**Type**	4-wire resistive touch
	Active Area Accuracy	Length (X) ± 2%, width (Y) ± 2%
Electrical	**Input Voltage**	24 ± 20% VDC
	Input Current	650 mA @ 24 VDC
	Power Isolation	Built-in
	Isolation Resistance	Exceed 50 MΩ at 500 VDC
Mechanical	**Enclosure**	Plastic, light gray
	PCB Coating	Yes
	Dimensions (W x H x D)	10.67 x 8.39 x 1.42 inches [271 x 213 x 36 mm]
	Weight	2.2 lbs. [1.0 kg]
	Mounting	Panel mounting
Environmental	**Operating Temperature**	32° ~ 122° F (0° ~ 50° C)
	Storage Temperature	-4° ~ 140° F (-20° ~ 60° C)
	Relative Humidity	10% ~ 90% (non-condensing)
	Vibration Endurance	10 to 25 Hz (X, Y, Z direction, 2 G, 30 minutes)
	Ratings	IP65 compliant front panel, NEMA 4X indoor use only
	Certifications	cULus, CE, RoHS
Software	EZwarePlus (v4.00.01 or later)	
Notes	*RTS/CTS cannot be used for COM1 RS-232 while COM3 RS-232 is in use.	

Maple Systems, Inc.	Dimensional Outline: HMI5100L,HMI5102L,HMI5103L

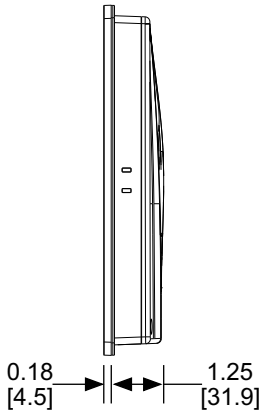
Top View



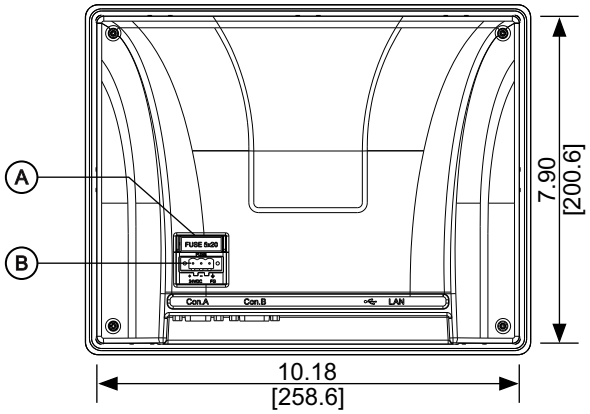
Front View



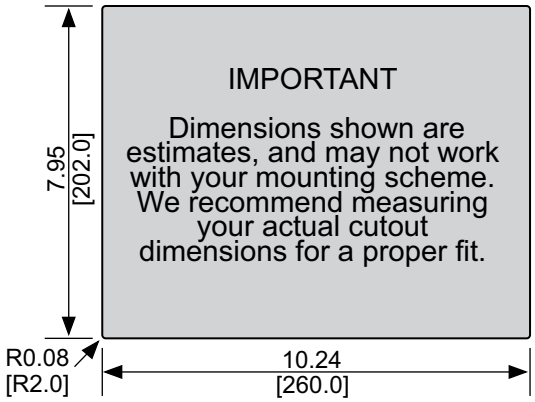
Side View



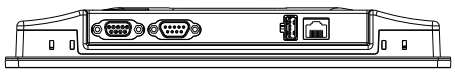
Rear View



Cutout Dimensions



Bottom View



Dimensions are in inches [mm]

12.1" Dark Grey HMI

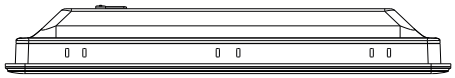
	HMI5121P	HMI5121XL
CPU	800 MHz	1 GHz
CANbus	Yes	No

System	**CPU**	32-bit RISC
	Memory (RAM)	256 MB
	Memory (Flash)	256 MB
	RTC	Built-in
I/O Ports	**Serial**	1 x DE9P COM1: RS-232, COM3: RS-232*
		1 x DE9S COM1: RS-485 2 or 4 wire, COM3: RS-485 2 wire
	Ethernet	1 x 10/100 Base-T
	CANbus	See Table Above
	USB Host	1 x USB 2.0
	USB Client	1 x USB 2.0
	Audio	N/A
	Video	N/A
	Wi-Fi	N/A
	HDMI	N/A
	SD Card Slot	SD/SDHC
Display	**Display Type**	12.1" TFT LCD
	Size (W x H)	9.76 x 7.34 inches [248 x 187 mm]
	Resolution (pixels)	1024 x 768
	Luminance (cd/m²)	500
	Contrast Ratio	700:1
	Max. Colors	16.2 M
	Backlight Lifetime (hours)	50,000+
Touch Screen	**Type**	4-wire resistive touch
	Active Area Accuracy	Length (X) ± 2%, width (Y) ± 2%
Electrical	**Input Voltage**	24 ± 20% VDC
	Input Current	850 mA @ 24 VDC
	Power Isolation	Built-in
	Isolation Resistance	Exceed 50 MΩ at 500 VDC
Mechanical	**Enclosure**	Aluminum, charcoal grey
	PCB Coating	Yes
	Dimensions (W x H x D)	12.48 x 9.61 x 1.81 inches [317 x 244 x 46 mm]
	Weight	4.63 lbs. [2.1 kg]
	Mounting	Panel or VESA 75 x 75 mm mounting
Environmental	**Operating Temperature**	32° ~ 122° F (0° ~ 50° C)
	Storage Temperature	-4° ~ 158° F (-20° ~ 70° C)
	Relative Humidity	10% ~ 90% (non-condensing)
	Vibration Endurance	10 to 25 Hz (X, Y, Z direction, 2 G, 30 minutes)
	Ratings	IP66 compliant front panel, NEMA 4X indoor use only
	Certifications	cULus, CE, RoHS
Software	EZwarePlus (v4.00.01 or later)	
Notes	*RTS/CTS cannot be used for COM1 RS-232 while COM3 RS-232 is in use.	

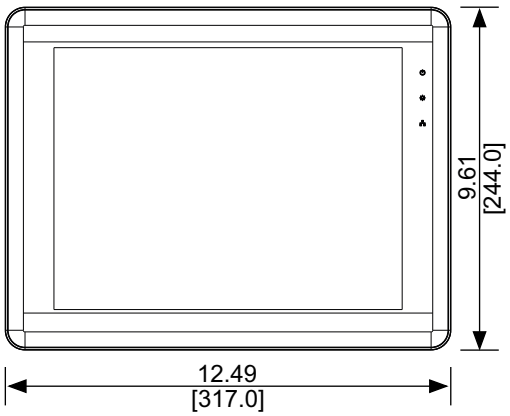
Maple Systems, Inc.

Dimensional Outline: HMI5121P/XL

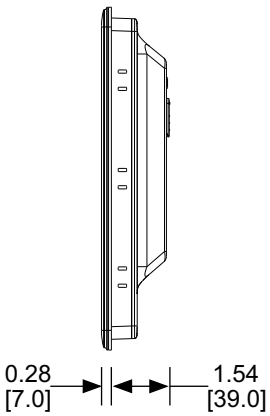
Top View



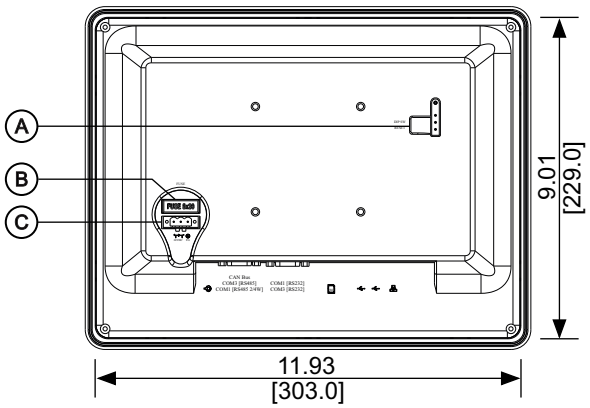
Front View



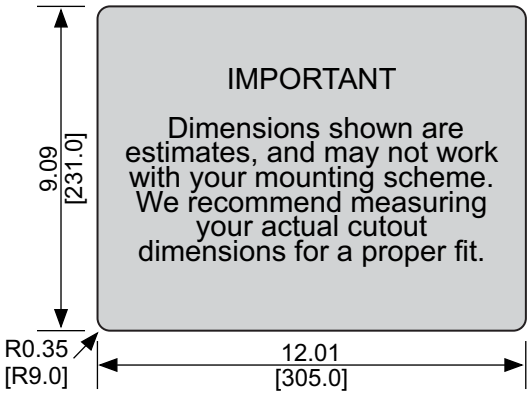
Side View



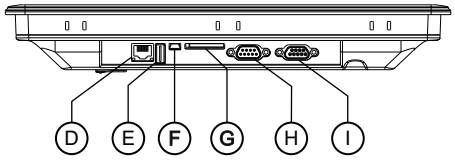
Rear View



Cutout Dimensions



Bottom View



Dimensions are in inches [mm]

Ⓐ DIP Switches & Reset Ⓑ Fuse Ⓒ Power Connector Ⓓ Ethernet Port
Ⓔ USB 2.0 Host Port Ⓕ Mini USB 2.0 Port Ⓖ SD Card Slot Ⓗ COM Port DE9P
Ⓘ COM Port DE9S

15” High-Speed HMI

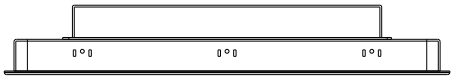
	HMI5150P	HMI5150XL
CPU	800 MHz	1 GHz
CANbus	Yes	No

System	**CPU**	32-bit RISC
	Memory (RAM)	256 MB
	Memory (Flash)	256 MB
	RTC	Built-in
I/O Ports	**Serial**	1 x DE9P COM1: RS-232, COM3: RS-232*
		1 x DE9S COM1: RS-485 2 or 4 wire, COM3: RS-485 2 wire
	Ethernet	1 x 10/100 Base-T
	CANbus	See Table Above
	USB Host	1 x USB 2.0
	USB Client	1 x USB 2.0
	Audio	N/A
	Video	N/A
	Wi-Fi	N/A
	HDMI	N/A
	SD Card Slot	SD/SDHC
Display	**Display Type**	15” TFT LCD
	Size (W x H)	12.00 x 9.06 inches [305 x 230 mm]
	Resolution (pixels)	1024 x 768
	Luminance (cd/m²)	350
	Contrast Ratio	700:1
	Max. Colors	16.2 M
	Backlight Lifetime (hours)	50,000+
Touch Screen	**Type**	4-wire resistive touch
	Active Area Accuracy	Length (X) ± 2%, width (Y) ± 2%
Electrical	**Input Voltage**	24 ± 20% VDC
	Input Current	900 mA @ 24 VDC
	Power Isolation	Built-in
	Isolation Resistance	Exceed 50 MΩ at 500 VDC
Mechanical	**Enclosure**	Aluminum, charcoal grey
	PCB Coating	Yes
	Dimensions (W x H x D)	14.41 x 11.54 x 2.24 inches [366 x 293 x 57 mm]
	Weight	6.06 lbs. [2.75 kg]
	Mounting	Panel or VESA 75 x 75 mm mounting
Environmental	**Operating Temperature**	32° ~ 122° F (0° ~ 50° C)
	Storage Temperature	-4° ~ 158° F (-20° ~ 70° C)
	Relative Humidity	10% ~ 90% (non-condensing)
	Vibration Endurance	10 to 25 Hz (X, Y, Z direction, 2 G, 30 minutes)
	Ratings	IP65 compliant front panel, NEMA 4X indoor use only
	Certifications	cULus, CE, RoHS
Software	EZwarePlus (v4.00.01 or later)	
Notes	*Only Tx and Rx may be used for COM1 RS-232 while COM3 RS-232 is in use.	

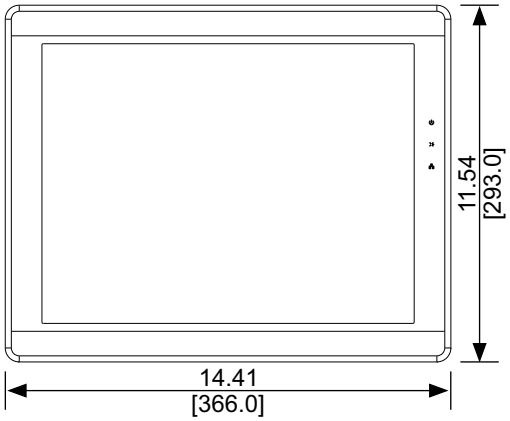
Maple Systems, Inc.

Dimensional Outline: HMI5150P/XL

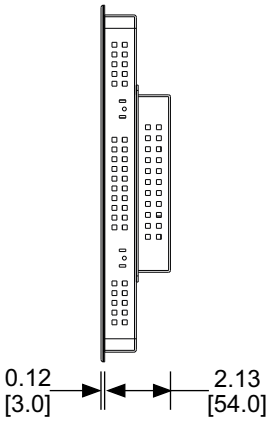
Top View



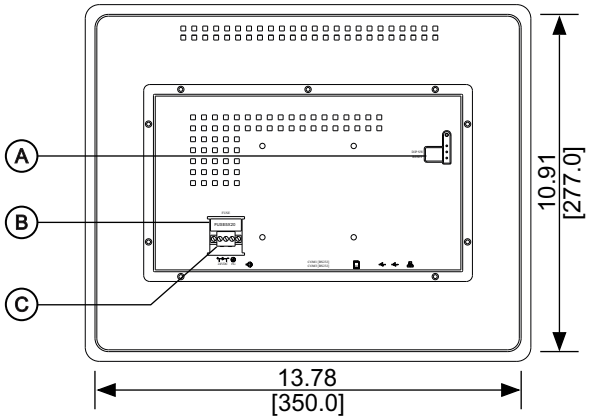
Front View



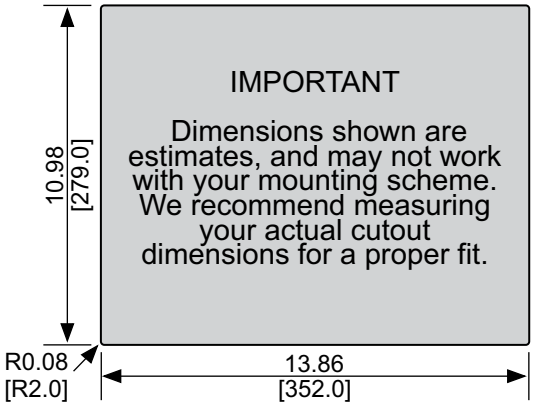
Side View



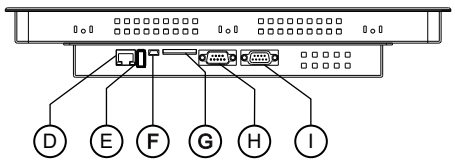
Rear View



Cutout Dimensions



Bottom View



Dimensions are in inches [mm]

Ⓐ DIP Switches & Reset Ⓑ Fuse Ⓒ Power Connector Ⓓ Ethernet Port
Ⓔ USB 2.0 Host Port Ⓕ Mini USB 2.0 Port Ⓖ SD Card Slot Ⓗ COM Port DE9P
Ⓘ COM Port DE9S

Overview

The Industrial Internet of Things (IIoT) enables you to connect to your machines and data through the Internet.

The IIoT connects powerful data from a manufacturing environment to informational technologies onsite and in the cloud. It offers improved access to more data, better informed decision-making, increased productivity, and profits. Many Maple Systems solutions come IIoT-Ready.

IIoT

Industrial Internet of Things

Maple Systems can serve as your partner for the IIoT, making your jump to a connected factory an easy one. Maple Systems interfaces offer a gateway access point to the IIoT, enabling operating equipment on the plant floor to connect to informational technologies of the world wide web, databases, smart phones, analytics software, and more. Achieve better access to invaluable data and open up a world of possibilities for your business.

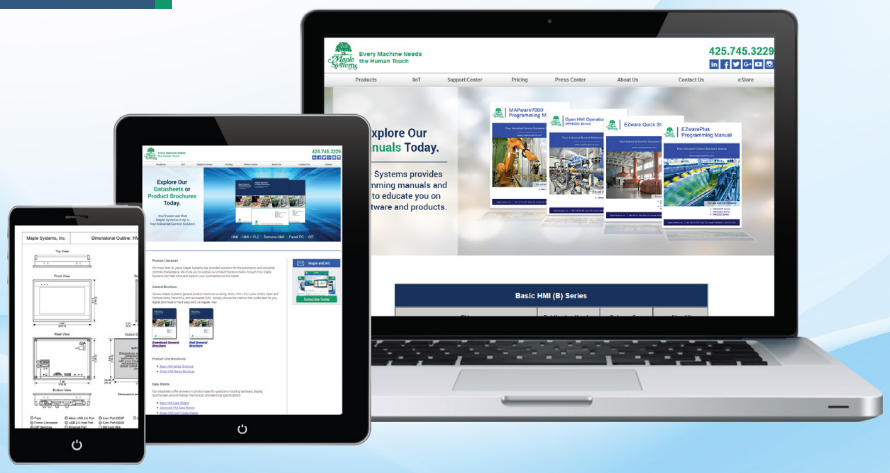
Your IIoT Partner

Maple Systems IIoT-Ready interfaces offer numerous benefits for OEMs and their customers:

- View how systems are performing and optimize production or machine use to automatically track maintenance and operations costs.
- A secure connection safely allows for advanced remote functionality such as email alarms, remote monitoring and programming.
- Reduce on-site visits, travel expenses, and costly downtime with off-site troubleshooting and configuration. Schedule predictive maintenance.

Maple Systems IIoT-Ready interfaces offer convenient remote access and control.

Support



Overview

Maple Systems delivers the industry's best value in control products. For us, "best value" means high-quality products and outstanding service at a great price.

In addition, all products are backed by an outstanding team and complimentary technical support. How can we help meet your control needs?

Support
The Maple Standard

Maple Systems is honored to be recognized as a leader in the industrial controls marketplace. The Maple Standard represents our dedication to delivering high-quality control products and support to our valued customers. It is our promise to deliver quality, reliability, and value to help you achieve your business and process goals. We'll assist you every step of the way so you can get the job done on time and within budget.

We Make Partnerships Easy

At Maple Systems, our team strives to make doing business with us easy. We want you achieve a positive and enjoyable experience every time you use our products or services. When partnering with Maple Systems, know that our high-quality, competitively-priced products are backed by a dedicated team of professionals ready to assist you. We also lead our industry with:

- Over 30 years of industry experience
- Rugged products that are built-to-last
- A team dedicated to providing complimentary support

For us, "best value" means providing high-quality control products and outstanding service at a great price.

Quality Products & Customer Service

The Maple Standard represents our promise to deliver quality, reliability, and value to help you achieve your business and process goals.

PLC Integration

Maple Systems products integrate with programmable controllers from the biggest names in PLCs including Allen Bradley, Schneider Electric, GE, Siemens, Mitsubishi, and Omron.

Communicate with PLCs, motion controllers, temperature controllers, embedded microcontrollers, and more.

HMI Configuration & SCADA Software

Maple Systems offers easy-to-use configuration software specific to each HMI, HMI + PLC, and OIT product line. We also recommend and offer Web Studio SCADA software for use with our Light and Heavy Industrial Panel PCs.

Experience greater functionality at a fraction of the cost compared to other industrial control software solutions.

Comprehensive Website and Support Center

Our website's online support center provides customers with 24-hour answers to complex control automation needs. Explore tech notes, product specifications, sample projects, drivers, and software upgrades. We also offer complimentary technical support to our customers via email and phone.

Visit us at **maplesystems.com/support**

Industry Accolades

Maple Systems has received many favorable product reviews, readership, and editor awards from customers, media, and trade publications.

Our products have been featured in articles from major trade publications including Control Design, Control Engineering, and Packaging World. Maple Systems was also named one of America's fastest growing private companies for six years by Inc. 5000 Magazine.

IIoT Ready

Maple Systems interfaces are IIoT-ready with support of over 300 different communication protocols including MQTT, Profinet, and Ethernet IP. Maple Systems solutions can ensure an OEM's machines will be IIoT-ready today, when customers request this functionality today, tomorrow, and well into the future. With IIoT-ready products in a range of size and features, Maple Systems has the flexibility to meet a variety of needs.

Reliability You Can Trust

At Maple Systems, we want every customer to be a lifelong customer. This commitment has helped us consistently offer great value and support to customers at affordable prices.

We hope you will be a part of our future as we continue to lead and innovate the industrial controls marketplace. After all, the most important ingredient in "The Maple Standard" is you.

Contact Us

How can Maple Systems help meet your control needs? Contact our control automation experts today.

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Control Solutions for Every Industry

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