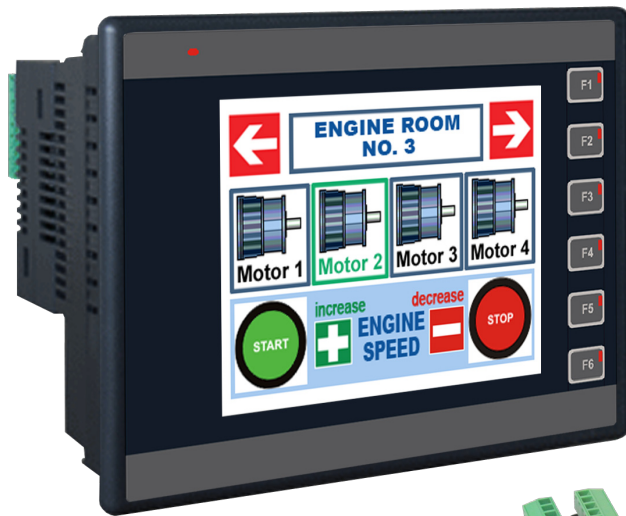




# Human Machine Controller

## HMC7057A-M



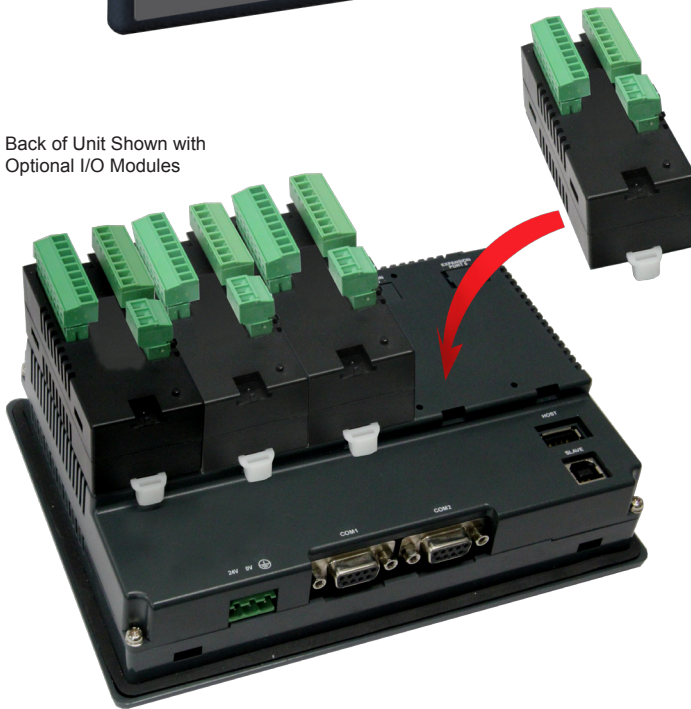
### 5.7" 6-Key Graphic HMC Controller/Operator Interface

- Bright (16-Bit) 32K Color TFT Display
- 320 x 240 Pixel Resolution
- Touchscreen Display
- 6 User-Defined Function Keys
- Serial and USB Ports
- Supports 5 Plug-in I/O Expansion Modules
- IP65 Design, CE and UL Certified, Class I Div. 2

### Software Features Include:

- Ladder Logic
- Create Objects With Multiple Tasks
- Data Logging — Time or Trigger Based
- Option for USB Memory Storage
- Windows Fonts, Supports International Characters
- Multiple Languages (9 Languages Per Object)
- Security for Projects, Screens, and Objects
- Recipe Management
- Alarm Management
- Trending: 4 Channels, Real-Time, History, and Time/Date Capture
- Pop-Up Windows

Back of Unit Shown with Optional I/O Modules



Maple Systems' 5.7" Graphic HMC is an all-in-one PLC and Graphic HMI — a hybrid unit that packs the functionality of a PLC and an HMI into one box. In addition this unit accepts up to 5 plug-in I/O expansion modules to give you the options you need.

The HMI portion supports both touchscreen and function key interface capabilities. The touchscreen is a 32K color TFT display. In addition there are six fully programmable function keys which run vertically adjacent to the touchscreen.

This unit supports both operator interface as well as

programmable logic controller features, and it allows users to incorporate a control program using standard Ladder Logic programming.

It also supports 32-bit high-speed counters (normal and quadrature mode), timers and counters, internal coils, retentive and non-retentive memory, and PID functionality.

With these models a PLC logic block can be executed at power up, during every scan, upon receiving an interrupt on specific I/O pins or upon a timer interrupt. In addition, these units can display both real time and historical alarms.



I/O Module

Hardware	
CPU Type	32-bit RISC, 200MHz
Memory	8MB Total, 6 MB max for screen memory
Serial Ports	Com1: RS-232/RS-485, 2 wire or 4 wire Com2: RS-485 2 wire
PLC Ladder Memory	960KB
I/O Expansion Ports	5 (for optional I/O modules)
USB	1 Host port, 1 slave port
RTC	Built-in

Display	
Type	5.7" TFT color
Dimensions of Display	4.5" x 3.8"
Resolution (pixels)	320 x 240
Brightness (cd/m <sup>2</sup> )	400
Contrast Ratio	350:1
Max Colors	32K for bitmaps, and 256 colors for drawing tools
Backlight	LED
Backlight Longevity	50,000 hours at 25 ° C

Touchscreen	
Type	4 wire analog resistive
Lifespan	1 Million activations minimum
Resolution	Continuous

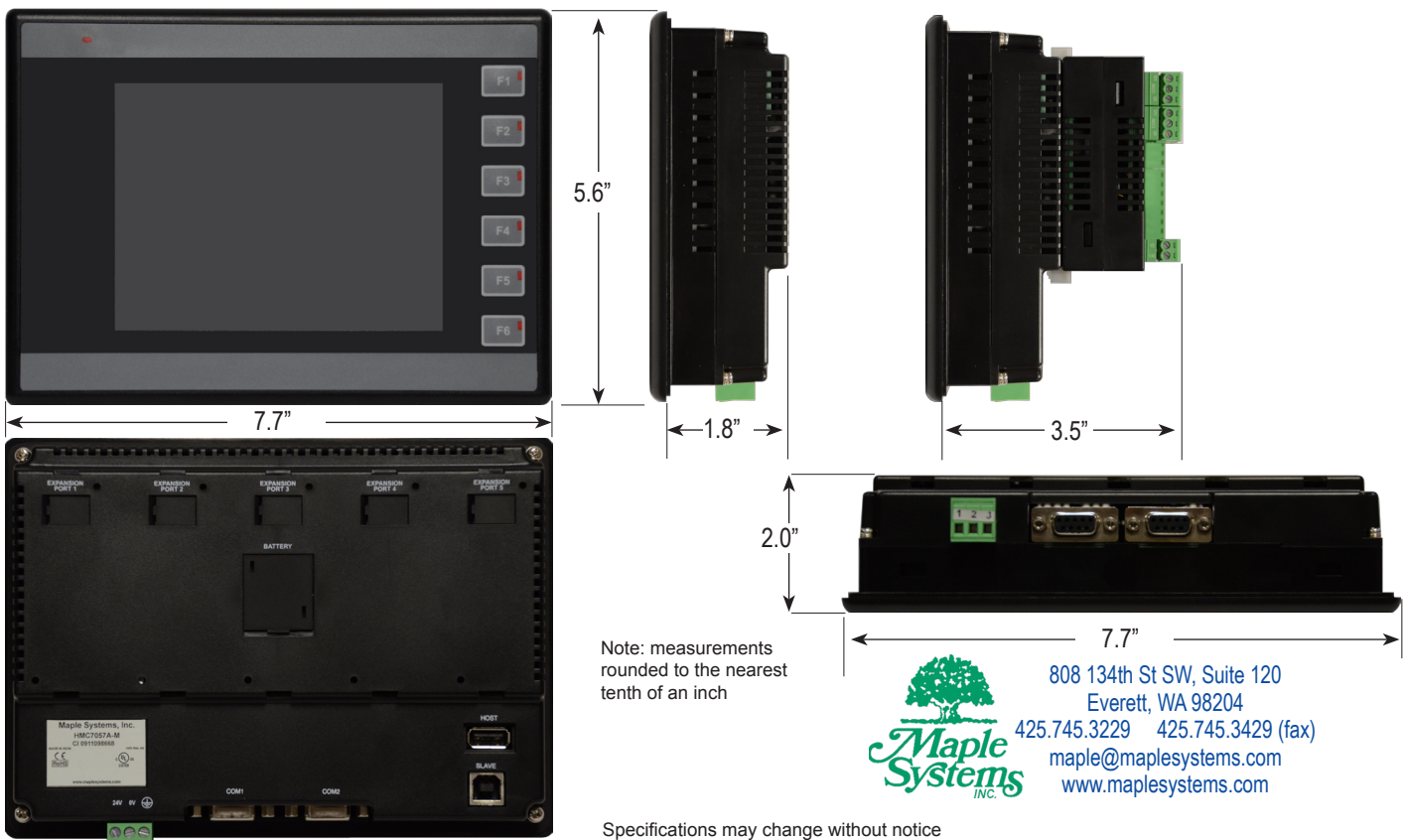
Keypad	
Function Keys	6 Programmable keys

Environmental	
Operating Temperature	32 ~ 122°F (0~50°C)
Storage Temperature	-4 ~ 176°F (-20 ~ 80°C)
Relative Humidity	10-85% rH@40°C non-condensing
Shock (operation)	25g of acceleration for 11 ms
Ratings	IP65, NEMA4
Certifications	CE, EMI FCC Class A, cULus, Class I, Div 2 Rated

Mechanical	
Enclosure	Plastic molding
Dimensions (WxHxD)	7.68 x 5.59 x 1.97 inches [195 mm x 142 mm x 50 mm]
Panel Cutout Dimensions (WxH)	7.24 x 5.16 inches [184 mm x 131 mm]
Weight	1.57 lbs (.71Kg)
Mounting	Panel
Power Requirements	24VDC, 210mA
Warranty	1 year

Optional I/O Expansion Modules	
HMC7-MIO-1	8 Digital inputs, 8 digital outputs (NPN type)
HMC7-MIO-2	8 Digital inputs, 8 digital outputs (PNP type)
HMC7-MO-1	12 Digital relay outputs
HMC7-MI-1	16 Digital inputs
HMC7-MI-2	4 Analog inputs
HMC7-MIO-3	2 Analog inputs, 2 analog outputs

Order Number	
HMC7057A-M	5.7" TFT Graphic HMC with I/O Expansion Ports



Specifications may change without notice