

## Touchscreen PLC has IO, Ethernet

**Product Exclusive:** Maple Systems' HMC7000 line of Graphic HMCs (human machine controllers) combine a touchscreen machine interface and a programmable logic controller (PLC) into a small robust unit with a variety of I/O connections.

08/12/2013

Maple Systems' expanded HMC7000 line, Graphic HMCs (human machine controllers), combine a touchscreen machine interface and a programmable logic controller (PLC) into a small robust unit. HMCs can be customized with a variety of I/O connections that allow the HMC to interface with most industrial control environments. The HMC7000 Series is now available in two new sizes, each with an Ethernet connection. Like the current models, these new 4.3-in. and 7.0-in. models are rated for Class 1 Div 2, and are cULus, RoHS, and CE compliant.

In addition to the two new screen sizes, nine new I/O units have new features, including 16-bit resolution, and high-speed (25 kHz) data transfer. A newly available analog input/output module has 4 inputs, with individually configurable current, voltage, RTD and thermocouple readouts. High-speed input for counters and motion detection, along with PWM outputs for motor control, are available with this newest release. These new I/O connectors are compatible with the current 3.5-in. and 5.7-in. models, providing many new possibilities.

As with the current HMC models, these new units are easily configurable with MAPWare7000. The graphic HMC with compact form factor, enhanced communications features, and flexible design, make it a cost-effective solution for most small to mid-sized automation environments.

### Features

- Cost-effective solution for simple SCADA configurations or small manufacturing environments
- Combines a PLC and HMI in one unit
- Expandable capability via I/O modules
- Supports connection of additional PLCs, allowing the HMC to scale to meet the needs of many applications.
- New sizes are 4.3-in., 480 x 272 pixels, 32,000 colors, 3 expansion slots, and Ethernet; and 7.0-in., 800 x 480 pixels, 32K colors, 5 expansion slots, and Ethernet.
- Easy-to-configure with MapWare7000 software, allowing setup of display screens and ladder logic for I/O controls
- All-touchscreen interface eliminates membrane keypad
- Class 1 Div 2 rating
- IP65/NEMA 4X Rating
- cULus/RoHS/CE Compliant
- New analog input/output module
  - One module for different sensors
  - Precision 16-bit resolution
  - 4 inputs, individually configurable for current, voltage, RTD, and thermocouple
  - 2 outputs, individually configurable for voltage and current
- New 8-input analog modules
  - One module supports many inputs
  - 12-bit resolution
  - 4 sets of 2 inputs each, ranges configurable by pair
  - Available in voltage or current versions
- New digital output modules
  - One module supports many inputs
  - 16-solid-state outputs
  - Available in NPN or PNP versions
- New digital high-speed input/output modules
  - Hi-speed inputs
  - 8 bi-directional inputs, 4 of which are high-speed, up to 25 KHz
  - 8 solid-state outputs
  - Available in NPN or PNP solid-state output versions
- New digital high-speed input/output modules with relay outputs
  - Conventional and hi-speed inputs, solid-state PWM and relay outputs
  - 8 bi-directional inputs (4 are high-speed)
  - 8 solid-state outputs (2 support PWM)
  - 6 normally open relay outputs
  - Available in NPN or PNP solid-state output versions
- High-speed inputs for counters and motion detection
- PWM outputs for motor control.

### Maple Systems

[www.maplesystems.com](http://www.maplesystems.com)

- Edited by Mark T. Hoske, content manager, CFE Media, [Control Engineering](mailto:mhoske(at)cfemedia.com), [mhoske\(at\)cfemedia.com](mailto:mhoske(at)cfemedia.com).

### ONLINE

[www.controleng.com/products](http://www.controleng.com/products) has more products.

### Share



### Featured Content

- EC: AC500-S Safety PLC
- EC: Focus II Safety Light Curtains
- EC: AZM300 Interlock Switch
- EC: XT Motor Control Center
- EC: Allen-Bradley Kinetix 5500 servo drive with Kinetix VP low-inertia servo motor
- EC: Allen-Bradley PowerFlex 525 AC Drive
- EC: SINAMICS V20 Variable Frequency Drive
- EC: MV1000 Medium Voltage AC Drive
- EC: Ensemble LAB Motion Control Platform
- EC: AM8500 Servo Motors
- [More Featured Content](#)

## ETHERNET OVER RS-485

The complete solution for rapid Ethernet/IP integration using active serial networks



Use existing wire to create:

- IP Networks
- IP Gateways
- Extend Ethernet

[Learn More](#)



[Learn more](#)

## Create Value with Re-Use

CONTROL ENGINEERING

Optimize Automation with Lifecycle Management

Download e-Guide

Sponsored By

EATON

Powering Business Worldwide