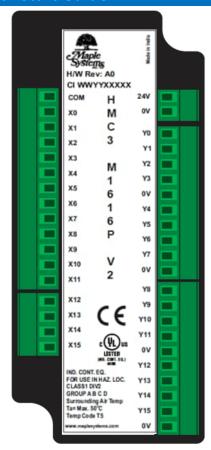
HMC3-M1616P-V2 Quick Start Guide



HMC3-M1616P-V2: 16 Bi-directional type inputs, 16 PNP type transistor outputs.

For more information, please refer to the MAPware-7000 Programming Manual, available in software help section and/or you can download from the Maple Systems website.



For More Information, visit https://www.maplesystems.com

SPECIFICATIONS

Power Supply		
Voltage Rating	24VDC (±15%), 12V from base	
Power Rating	Input/channel: 24VDC, 5mA typical Output/Channel: 250mA @ 24VDC	
Isolation	Optical Isolation for all I/O points. High isolation voltage (BV= Greater than 1.5kV)	
Local I/O Specification		
Number of Inputs	16 Inputs Bi-directional Type	
Input Design	According to EN 61131-2 Type 1	
ON Voltage	Min.: 15VDC, Max.: 30VDC	
OFF Voltage	Min.: -3VDC, Max.: 5VDC	
Nominal Input Voltage	24VDC	
Nominal Input Current	5mA typical	
Input Response Time	ON: 10msec, OFF: 10msec	
Input Impedance	4.8kΩ	
Number of Outputs	16 PNP type transistor outputs	
ON Output Voltage	Min ON: 22VDC, Max. ON: 30VDC (Voltage across load)	
OFF Output Voltage	Min OFF: 0.2VDC Max. OFF: 1VDC	
Nominal Output Voltage	30VDC	
Nominal Output Current	250mA type/channel	
Output Response Time	ON: 10msec, OFF: 10msec	
Nominal Load Max.	96Ω/6W (resistive) @ 24VDC 6VA (inductive, unity power factor)	

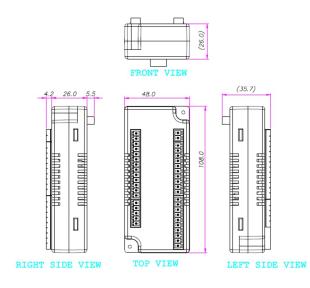
[Note: HMC3 I/O Module Series only compatible with HMC2000/ HMC4000 Series Base Model]

SPECIFICATIONS

Environment & Approvals		
Operating Temperature**	0 to 60°C	
Storage Temperature	-20 to 85°C	
Humidity	10 to 90% (Non-Condensing)	
Short Circuit Protection	Yes	
Product Dimensions	48mm x 108mm x 35.7mm (W x H x D)	
Approvals	CE, UL	

^{**} Operating temperature: For UL 0 to 50°C

Dimension Details



PANEL MOUNTING

Mounting with base models:

With the expansions, while unpacking the unit, user will find two screws already attached with base bottom case. Fix the expansion with the HMI as shown below with these screws. Fix the Expansion connector with the expansion female connector given on base HMI. Apply torque 0.1Nm while fixing with base unit.

Mounting with 4.3" base model:



Mounting with 7" and 10.1" base model:

For 7" and 10.1" HMI models, the procedure of mounting expansions is same. Only instead of horizontal mounting, expansions will mount in vertical directions.

Hence, accordingly these bases are having facility to add 3 and 5 expansions at a time respectively. Examples are shown here.

Mounting with 7" base model:



Mounting with 10.1" base model:

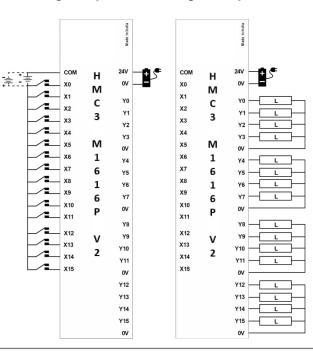


[Note: All Pictures shown are for illustration purpose only. Actual product size may vary.]

WIRING DIAGRAM

Digital Inputs

Digital Output



WARNING

- This equipment is suitable for use in Class I, Division 2, Groups A, B, C and D or nonhazardous locations only.
- WARNING EXPLOSION HAZARD Do not disconnect equipment unless power has been removed or the area is known to be nonhazardous.
- WARNING EXPLOSION HAZARD Substitution of components may impair suitability for Class I, Division 2.
- The list of materials used in the construction of these devices with name of sealed device generic name of the material and the supplier's name and type designation.
- It is recommended that the user periodically inspect the sealed devices used, for any degradation of properties and replace the device if any degradation is found.

Technical Support:

- For Technical support, please contact Maple Systems along with the unit serial number and revision number written on the address sticker of the unit.
- Also, provide information of the application used. Usually, including your application also provides a lot of help. If possible, e-mail the application to Maple Systems.

REVISION HISTORY

Rev.	Description	Date
00	First Draft	10/18/2022

Maple Systems reserves the right to change or discontinue specifications and features without prior notice. To view the latest and updated datasheets/manuals please visit www.maplesystems.com.