HM*i* Operator Interface

Product Description

Positioned between the ELC graphics panels and the ePro series of operator interfaces, **HM*i*** is the work horse of the industry. All units feature a touch-screen and function keys to suit all environments and applications. They range in screen size and color to fit available space and application needs. All units offer RS-232, RS-485 and RS-422 communications. The 6", 8" and 10" units also offer Ethernet communication with an accessory card.

Features

- True analog touchscreen
- Retentive internal data storage
- Real time trending
- Trend stored data
- Alarming and alarm storage
- Alarm frequency
- Event storage (History)
- USB programming
- USB memory storage
- USB printer
- Add I/O
- Macro programming
- Multi-language
- Recipe storage
- Auto-scale application from 10 – 4"
- On-line simulation
- Off-line simulation
- 8-level password protection



Protocols Supported

Table 7. Protocols Supported by HM*i*

Manufacturer	Protocol
Allen Bradley	Micro Logix SLC 5
Danfoss	VLT 2800 (FC Protocol)
Eaton	ELC Series
Facon	FB Series
Festo	Festo PLC
GE Fanuc	90 Series SNP
Hust	Hust CNC Controller Hust CNC Controller v2
Jetter	Nano Series
Keyence	KV/KZ Series
Koyo	DL/SU Series K-Sequence
Lenze	LECOM-A/B protocol
LG	Master-K 120S/200S Glofa GM6 CNET Master-K CNET
Li Yan	LYPLC EX
M2i	M2i Master M2i Slave
Matsushita	FP Series
Mirle	FAMA SC
Mitsubishi	FX Series FX2N A Series/J71UC24 A2A/A2AS/A2USH A1SH/A3N/A2ASH CPU Port Q Series CPU Port
MKS	CT150
Modbus	ASCII (Master) 984 RTU (Master) RTU 2W (Master) ASCII Hex Address (Master) RTU Hex Address (Master) ASCII nW (Master) RTU nW (Master) ASCII (Slave) RTU (Slave)
Modicon	TSX Micro (Uni-Telway) NEZA (Uni-Telway) TWINDO
NIKKI DENSO	NCS-FI/FS Series
Omron	C Series CJ1 Series TPM1A
SIEMENS	S7 200 S7 300 (with PC Adapter) S7 300 (without PC Adapter)
Taian	TP02
Ti	Ti435
Vigor	M Series
VIPA	S7 300 (with PC Adapter)
YOKOGAWA	ACE

Product Selection

Table 8. HM*i* Product Selection

Description	Catalog Number
4" Blue Mode Touchscreen	**HMI04BU**
6" Blue Mode with Expansion Slot	**HMI06BE**
6" Gray Scale Mode with Expansion Slot	**HMI06GE**
6" Color Mode with Expansion Slot	**HMI06CE**
8" Color Mode with Expansion Slot	**HMI08CE**
10" Color Mode with Expansion Slot	**HMI10CE**

Technical Data and Specifications

Table 9. Specifications

Model		HMI04BU	HMI06BE	HMI06GE	HMI06CE	HMI08CE	HMI10CE
Display Type		STN	STN	FSTN	STN	TFT-LCD	
Display Color		8 Blues	8 Blues	16 Grays	256 Colors	65536 Colors	
Screen Pixels		320 x240 pixels	320 x 240 pixels			640 x 480 pixels	
Back-light Life		About 20,000 hours at 25°C	About 50,000 hours at 25°C			About 30,000 hours at 25°C	
Display Size		3.8"	5.7" (118.2 x 89.4 mm)			8.0" (162.2 x 121.77 mm)	10.4" (215.2 x 162.4 mm)
Operation System		Real Time OS					
MCU		32-bit RISC Micro-controller / 206.4 MHz					
Memory							
Program		1M	3M	3M	3M	7M	7M
History		120K	360K	360K	360K	360K	360K
Recipe		64K ②	128K	128K	128K	128K	128K
Alarm		4K	16K	16K	16K	16K	16K
Data Registers							
Volatile		64K	64K	64K	64K	64K	64K
Non-volatile		1K	1K	1K	1K	1K	1K
Backup Memory (Bytes)		128K	512K			512K	512K
Ext. Memory	SM Card		✔	✔	✔	✔	✔
	USB Disk	✔				✔	✔
Extension Interface			✔	✔	✔	✔	✔
USB for Download (USB Client)		1 Client Ver. 1.1					
USB for Data Storage / Printer (USB Host)		✔				✔	✔
LCD Module		LED Back Light	CCFL Back Light	CCFL Back Light	CCFL Back Light	CCFL Back Light	2CCFL Back Light
Function Key		4	4	4	4	6	7
Perpetual Calendar (RTC)		Built-In					
Cooling Method		Natural Air Circulation					
Standards and Certifications		IP65 / UL Type 4X (Indoor Only) / CE / UL / cUL / C-Tick					
Operating Temp.		32° – 122°F (0° – 50°C)					
Storage Temp.		-4° – 140°F (-20° – 60°C)					
Ambient Humidity		10% – 90% RH (0 – 40°C), 10% – 55% RH (41 – 50°C)					
Shock		30G @ 11 mS					
Vibration Resistance		IEC61131-2 compliant When vibration is NOT continuous: 5 Hz – 9 Hz 3.5 mm, 9 Hz – 150 Hz 1G X, Y, Z directions for 10 times					
Dimensions (W) x (H) x (D) in Inches (mm)		5.54 x 4.13 x 1.76 (140.8 x 104.8 x 44.8)	7.25 x 5.67 x 1.85 (184.1 x 144.1 x 47)			9.57 x 7.01 x 2.06 (243.1 x 178.1 x 52.4)	11.70 x 8.74 x 2.01 (297.1 x 222.1 x 51.1)
Weight in Lbs. (kg)		.69 (.315)	1.69 (.768)			2.52 (1.147)	3.79 (1.721)
Backup Battery		3V Lithium Battery CR2032 x 1 / Battery Life: 5 Years					
Buzzer		85dB					
Operation Voltage		DC +24V (10% – 20%) (Please use isolated power supply) ①					
Wattage		2.64	7.2	7.2	7.2	14	15
NIT Rating		100 cd/m^2	130 cd/m^2		100 cd/m^2	400 cd/m^2	330 cd/m^2

① Please use isolated power supply (Not applicable for HMI08CE and HMI10CE).

② Recipe memory uses program memory.