

Graphics and Text based HMI range (Human Machine Interfaces)

IMO



new IMO HMIs: first choice for fingertip feedback and control



Introducing the biggest-ever range of technologically advanced, easy to set up and use graphical and text based HMIs from IMO.

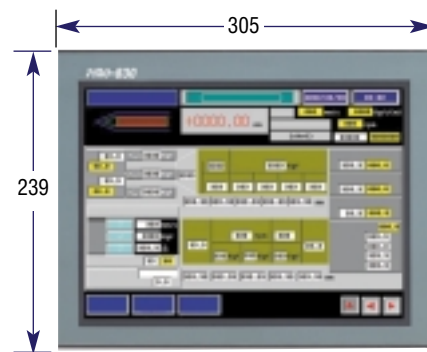
From the all-powerful PMU-830TT with its 12.1" TFT colour touch screen and latest Windows™ based development tools, to the compact two line by twenty character MI2L20C, you'll find an IMO HMI with a feature set to fit your application precisely.

A comprehensive range of interfaces are available for hassle-free connection to IMO Jaguar Drives and PLCs, as well as a host of other products...

Attractively priced and supported by our renowned three year guarantee, make IMO HMIs your first choice for fingertip feedback and control.

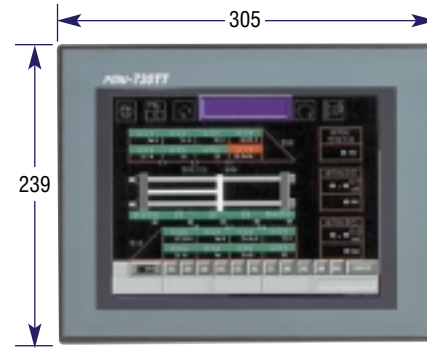


Graphics-based HMI (Human Machine Interfaces) PMU



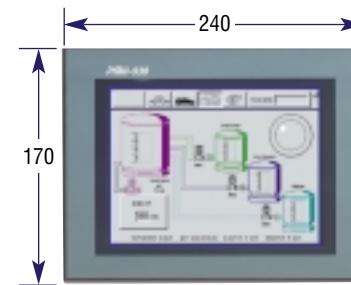
PMU-830TT

- 12.1" TFT 256 colour touch screen 800x600 135cd/m
- Built in printer port
- 4 MB Flash plus 256K for Logging and recipe
- Logged data can be downloaded to PC using PMU Editor and converted to an Excel report
- 9 pin D type serial interface
- 85-265VAC 20 Watts
- Dimensions 305x239x55



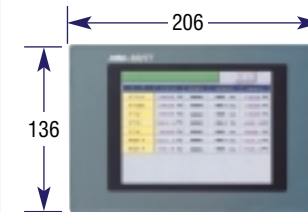
PMU-730TT

- 10.4" TFT 256 colour touch screen 640x480 200cd/m
- 4 MB Flash plus 256K for Logging and recipe
- Built in printer port
- Logged data can be downloaded to PC using PMU Editor and converted to an Excel report
- 9 pin D type serial interface
- 85-264VAC VDC 20 Watts
- Dimensions 305x239x55



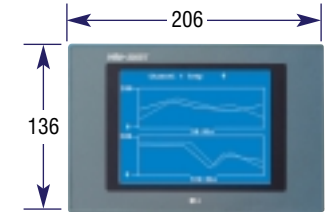
PMU-530ST

- 7.5" STN 256 colour touch screen 640x480 83cd/m
- 2 MB Flash plus 256K for Logging and recipe
- Logged data can be downloaded to PC using PMU Editor and converted to an Excel report
- 9 pin D type serial interface
- 18-28 VDC 12 Watts
- Dimensions 240x136x64



PMU-330TT

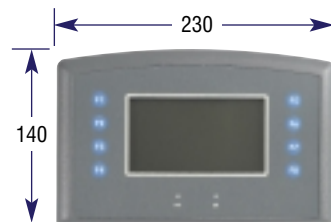
- 5.5" TFT 256 colour touch screen 320x240 250cd/m
- 2 MB Flash plus 256K for Logging and recipe
- Logged data can be downloaded to PC using PMU Editor and converted to an Excel report
- 15 pin D type serial interface
- 18-28 VDC 12 Watts
- Dimensions 206x136x64



PMU-330BT

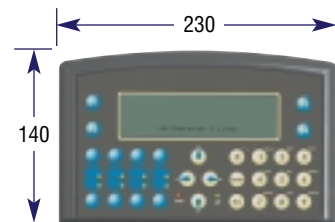
- High Quality 5.7" STN mono (Blue/White) touch screen 320x240 220cd/m
- 1 MB Flash plus 256K for Logging and recipe
- Logged data can be downloaded to PC using PMU Editor and converted to an Excel report
- 15 pin D type serial interface
- 18-28 VDC 12Watts
- Dimensions 206x136x64mm

Text-based HMI (Human Machine Interfaces) MI



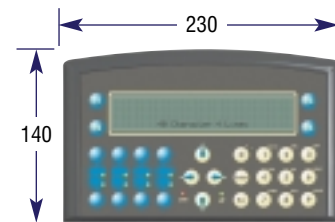
IMO MI1L28T

- 240 by 128 pixel graphic LCD display with LED backlight, with resistive touch membrane
- 8 programmable function keys
- Import Bitmaps
- Animation of Bitmaps
- Bar Graphs
- Drawing of Lines and Rectangles
- Flash 512K bytes used to hold firmware database, and protocols
- 128K bytes SRAM battery backed
- Power consumption 5.0 watts
- Dimensions 140x230x48



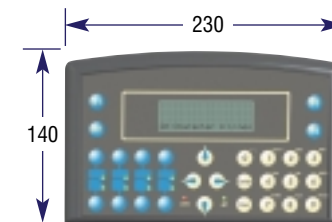
IMO MI8L40CX

- Eight line by forty character 240x64 Graphics LCD display with LED backlight and variable height characters, providing excellent visibility in all conditions
- 4 programmable Function Keys
- 4 Navigational Keys
- 8 user defined function keys
- Alpha-numeric keys
- Power consumption 2.75 Watts
- Flash 512K bytes Used to hold firmware, database and protocols
- 128K bytes SRAM solely for variable data



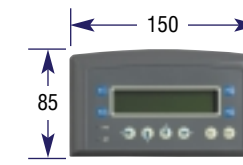
IMO MI4L40CX

- Four line by forty character LCD display with LED backlight with 5.5 mm high characters providing excellent visibility in all conditions
- 4 programmable Function Keys
- 4 Navigational Keys
- 8 User defined function keys
- Alpha-numeric keys
- Power consumption 3.5 Watts



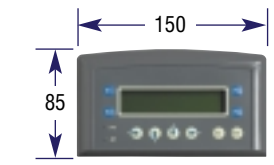
IMO MI4L20CX

- Four line by twenty character LCD display with LED backlight with 5.5 mm high characters providing excellent visibility in all conditions
- 4 programmable Function Keys
- 4 Navigational Keys
- 8 User defined function keys
- Alpha-numeric keys
- Power consumption 3.5 Watts



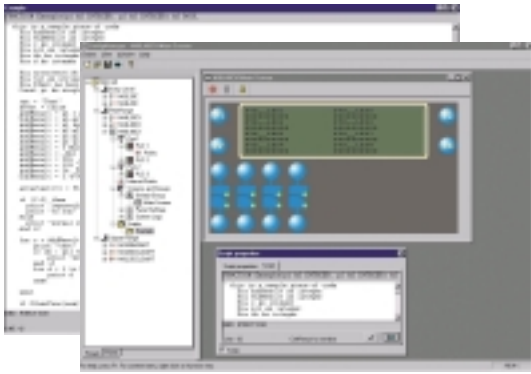
IMO MI4L20C

- Four line by twenty character LCD display with LED backlight with 5.5mm high characters providing excellent visibility in all conditions
- 4 programmable function keys
- 6 navigational keys
- Power consumption 2.5 watts
- Dimensions 85x150x42



IMO MI2L20C

- Two line by twenty character LCD display with LEDbacklight with 5.5mm high characters providing excellent visibility in all conditions
- 4 programmable function keys
- 6 navigational keys
- Power consumption 2.5 watts
- Dimensions 85x150x42



PMU Editor

Powerful, easy to use configuration software for IMO PMU series Human Machine Interfaces

Powerful Windows-based techniques

- Drag and Drop
- WYSIWYG (What you see is what you get)
- Search and replace

Powerful IDE (Integrated Development Environment)

- Project based - easy to manage large projects
- Screen editor - used to easily configure screens. Multiple screens can be edited with WYSIWYG and drag and drop functionality
- Screen magnification - for easy editing of graphics
- Alarm editor - used to configure alarms
- Extensive object libraries - buttons, trend, and lamps
- Bitmaps can be imported into graphic displays
- Simulation function - screens and operation can be debugged without connecting to the display
- Font download
- Operating system download
- Screen capture
- Thumbnail function can see all screens
- Data conversion to Excel

General specification PMU series HMIs

Technology	32 bit 66Mhz RISC processor (ARM)	
Communications port	Two serial port 1 RS232 plus 1 RS485	
Parallel Port	Standard (option on models PMU330BT/TT and PMU530ST)	
FNET	Option	
Ethernet	Option	
DeviceNet	Option	
Profibus	Option	
Diagram Type	Circle, Straight line, Oval, Square, Polygon	
Graph Type	Bar, Trend, Meter, Pie, XY Chart	
Memory Flash	4MB/2MB/1MB Plus 250K for Logging/Recipe	
Fonts	Different Fonts can be download	
Contrast Control	Contrast adjustment	
Enclosure	IP65F	
Mounting	Panel mounting	
Temperature range	Operating 0-55C non-operating -20 to 70C	
Relative Humidity	5 to 90%	
Vibration	Operating 5 to 250Hz 1G	
CE compliance	<i>Emissions</i>	EN50081-1 Class A radiated conducted emissions
	<i>Immunity</i>	EN50082-1 Light industry immunity
	<i>Safety</i>	EN60950 Low Voltage Directive

General specification MI series HMIs

Technology	16 bit Intel 186 architecture compatible	
Scripting Language	Powerful BASIC scripting Language	
Communications port	Two serial port (MI128T/MI8L40CX/MI4L40CX/MI4L20CX) Single serial port (MI2L20C/MI4L20C) Accessible at rear of enclosure via standard 9-way female D-type connector. Serial port is software configurable to support either RS232 RS485 2-wire/4-wire/RS422, including multidrop	
Parallel Port	Single printer port accessible at rear of enclosure via standard 25-way male D type connector	
RTC	Battery backed real time clock	
Power Supply	9VDC-35VDC Reverse polarisation protection	
Memory Flash	128K bytes used to hold firmware, database and protocols	
Memory SRAM	32K bytes solely for variable data (volatile memory no battery back-up)	
Status Indicators	2 LED's provided on front - serial port activity - user configurable alarm	
Sounder	Internal buzzer provided for key presses and other alternative events, as determined by application software	
Expansion	Expansion Capability	
Contrast Control	Manual adjustment via potentiometer at rear of enclosure	
Enclosure	Two part APB injection molded case Designed to meet IP65/NEMA4/12 front panel	
Weight	Approx 300g	
Mounting	Panel mounting. No mounting studs, fixed into place using clips	
Temperature range	Operating 0-55°C non-operating -20 to 70°C	
Relative Humidity	5 to 90%	
Vibration	Operating 5 to 250Hz 1G	
CE compliance	<i>Emissions</i>	EN50081-1 Class A radiated conducted emissions
	<i>Immunity</i>	EN50082-1 Light industry immunity
	<i>Safety</i>	EN60950 Low Voltage Directive

IMO Precision Controls Limited
1000 North Circular Road
Staples Corner, London NW2 7JP
United Kingdom

Tel: +44 (0)208 452 6444
Fax: +44 (0)208 450 2274

Web: www.imopc.com
Email: imo@imopc.com

