

iView HMI



HMI solutions *you can view*

iView HMI

See the difference

Advanced HMI Controllers

- Huge range of features included as standard
- Array of communications ports inc. Ethernet
- IP66 rated for increased protection
- 65K touchscreen as standard



iView HMI

IMO's new range of iView HMI's are available five screen sizes 4.3", 7.0", 10.4", 12.1" and 15.0". The HMI range options include M Series models for medium range applications and H Series models with higher capability for demanding applications.

The new HMI's have high resolution 65K colour resistive touch LCD TFT screens operating on an ARM based Processor. The compact and well-designed bodies are packed with features. Communication and data logging is made easy by incorporating a number of ports; two USB, one Ethernet, three serial and a Micro SD up to 16GB. These features make it possible to connect to printers, keyboards or a mouse, and data storage on a Micro SD card or USB Hard Drive.

Rich in communication features, iView allows for remote connectivity via VNC server as well as Ethernet protocols (Modbus TCP/IP, BACnet/IP, Profinet/IP), and Serial protocols (including Modbus RTU, BACnet, Siemens MPI).

Software - iView Developer

The included licensed programming software is an exceptionally easy to use integrated development tool, featuring solution-oriented screen objects, high-end vector graphics, Windows fonts for multi-language applications, recipes, alarms, data loggers and operation logging. Other functions include Trending, XY Graph, Alarm Monitoring and Time Scheduling.

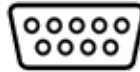


Hardware Features

The iView range of HMI's from IMO are incredibly powerful and feature full colour touch screens with sizes ranging from 4.3" to 15.0". Never before have so many features been included as standard in an HMI, making the iView one of the most advanced HMI controllers ever produced.



Ingress Protection for Dust Proofing and Water Resistance



3 In-built Serial Ports including 1 x Screwless



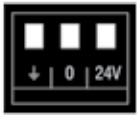
Aluminium bezel available on selected models



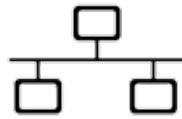
In-built FTP file transfer functionality allowing remote download



MicroSD card storage for Data Logging



Plug in power terminal for easyfit



In-built Ethernet Port for remote connectivity



2 In-built USB Ports - 1 x USB A, 1 x USB B



Applications

The iView HMI has been optimised for implementation in the following areas and many more...



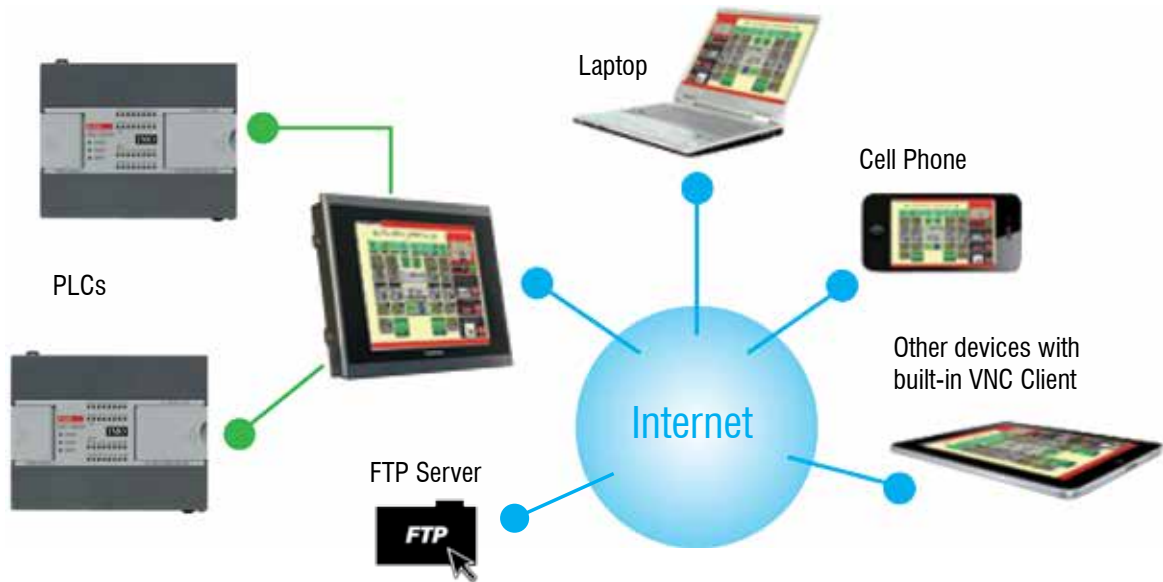
- Packaging Machinery
- Food Processing
- Water & Waste Treatment
- Custom OEM Products
- Motion Control
- Pump Control



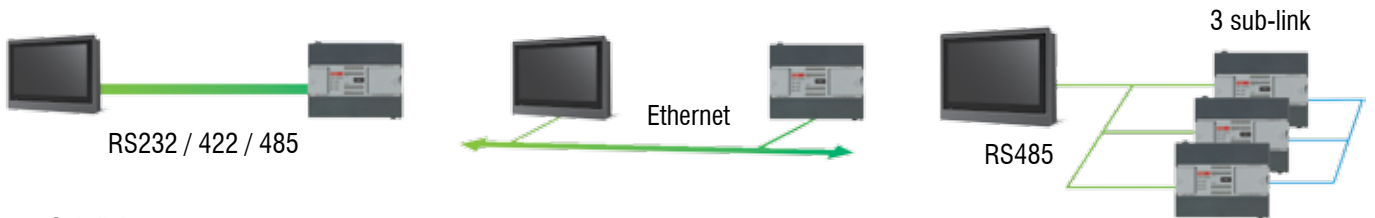
- Custodial Vehicle Management
- HVAC & Environmental Control
- Communications Hub
- Dedicated Alarm Systems
- Building Management
- Process Control

Communications Features

Web Server Communications



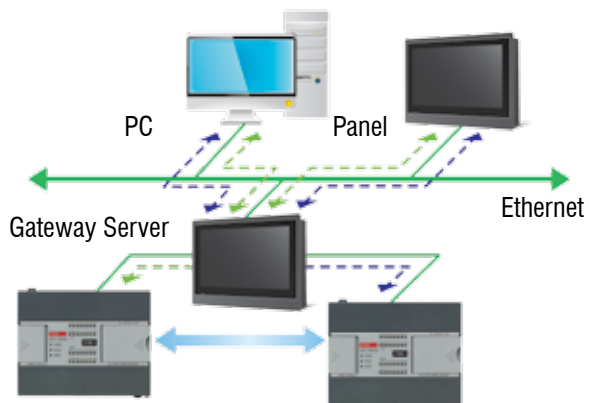
Direct Link Communications



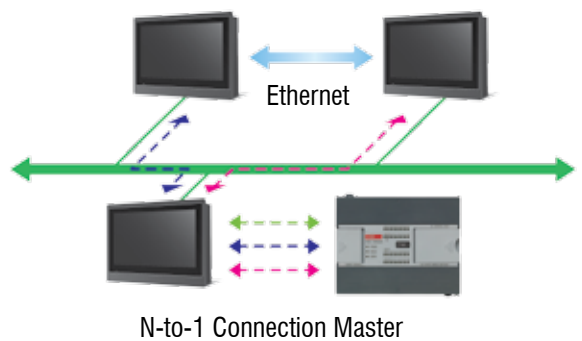
Sub-link

Using RS485 serial connection to link multiple devices with the same protocol, such as temperature controllers and intelligent sensors. Users can activate / deactivate the sub-link and save the communication process.

Gateway Service

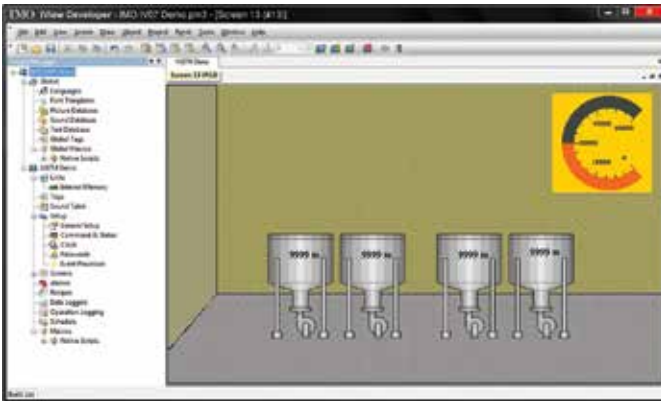


N to 1 Communication Connection



Software Features - iView Developer

- Dynamic multi-lingual user interface with Unicode, offering screen text support for multiple languages
- All designs, macros and upload/download operations can be protected by passwords
- In-built serial port, Ethernet, USB and MicroSD card allows for downloading of runtime data
- User configurable script for improved functionality
- Comprehensive index registers are included for modifying device addresses in runtime
- Review and investigate important events using the Operation Log
- Supports over 380 industrial communication protocols inc. Modbus, BACnet MSTP/BACnet IP for 3rd party device communication
- Offline simulator to enable testing of the program before downloading to the iView



Configurable Toolbars

Icon Display Improves Work Efficiency

Shortcut icons designed to show objects, figure type, and operations improving work efficiency

Frequently used objects and figures can be registered as favourites

Dialog Box

The property dialog is displayed by double-clicking the object or figure

Figure changes are immediately reflected on screen, thereby simplifying the process and reducing errors

Screen Design Worksheet

Smart Screen Design

Easy-to-view screens during runtime development, adjustable based on user-oriented application

Project Workspace

Intuitive Tree Display Makes Runtime Development Easy

Easy to create, develop, and manage project property efficiency by project-based management worksheets

Intuitive Error Messaging

Compile & Simulate Results

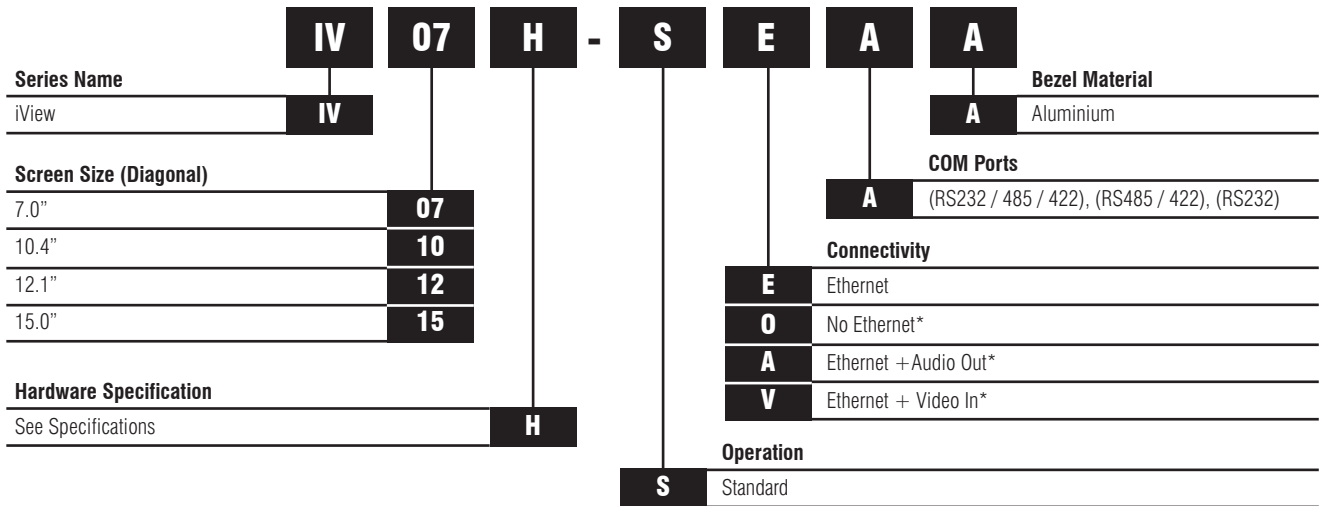
By double-clicking on the error message after compilation, it will jump to the specific place where the error is located

iView HMI - H Series

- In-built FTP functionality allowing remote download
- Three Serial Ports Inc. 1 x Screwless terminal
- In-built Ethernet Port for remote connectivity
- 2 x USB Ports (1 x USB A, 1 x USB B Ports)
- Remote Monitoring using VNC (Web) Server
- MicroSD for Data Logging
- In-built Offline Software Simulation
- Aluminium bezel
- IP66 Rated



Options & Ordering Codes



Specifications

* Please contact IMO for more information

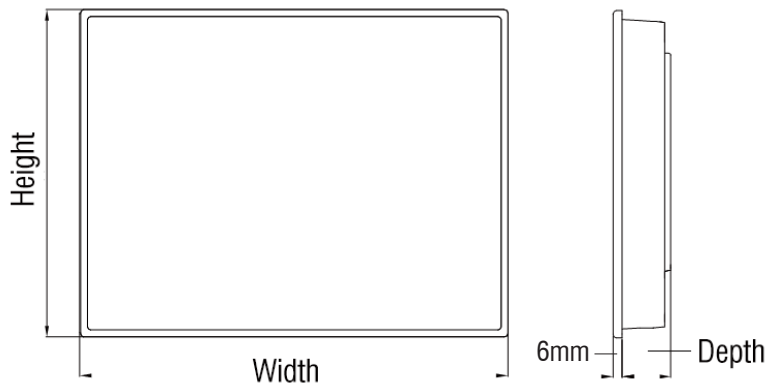
Ordering Codes	IV07H-SEAA	IV10H-SEAA	IV12H-SEAA	IV15H-SEAA
Size	7.0"	10.4"	12.1"	15.0"
Resolution / Colours	800 x 480 / 65K	800 x 600 / 65K	1024 x 768 / 65K	1024 x 768 / 65K
System Memory	256 MB	256 MB	256 MB	256 MB
In-built Storage Memory	1024 MB	1024 MB	1024 MB	1024 MB
Battery Backup Memory	1 MB	1 MB	1 MB	1 MB
COM 1	RS 232/422/485	RS 232/422/485	RS 232/422/485	RS 232/422/485
COM 2	RS 232/485	RS 232/485	RS 232/485	RS 232/485
COM 3	RS 232	RS 232	RS 232	RS 232
USB	2	2	2	2
Real Time Clock	Built In	Built In	Built In	Built In
MicroSD Card	Up To 16 GB	Up To 16 GB	Up To 16 GB	Up To 16 GB
Audio / Video	Optional	Optional	Optional	Optional
Certification	UL, CE, cUL	UL, CE, cUL	UL, CE, cUL	UL, CE, cUL
Ratings	IP66	IP66	IP66	IP66
Voltage Ratings	24VDC ±10% Isolated	24VDC ±10% Isolated	24VDC ±10% Isolated	24VDC ±10% Isolated
Power Ratings	20 W	20 W	20 W	20 W
Operating Temperature	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C
Net Weight	0.8kg	1.25kg	1.9kg	2.68kg

iView HMI - H Series

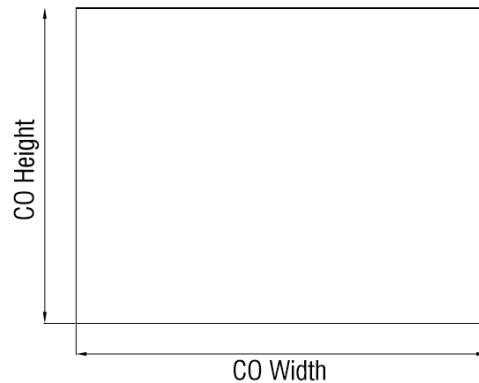
Accessories

Ordering Codes	MSD-16GB	iV-USB
Description	16 GB MicroSD Card	USB Programming Cable

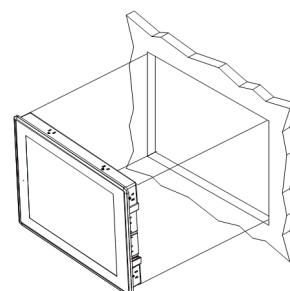
Dimensions



Cut Out Dimensions



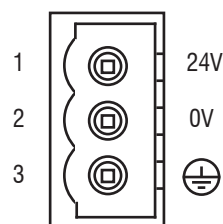
Model	Width	Height	Depth	CO Width	CO Height
IV07H-SEAA	213.5mm	158.6mm	40.5mm	192mm	138.5mm
IV10H-SEAA	280.3mm	222.3mm	45mm	259.5mm	201mm
IV12H-SEAA	317.4mm	243.8mm	58mm	301.5mm	228mm
IV15H-SEAA	399.1mm	297.6mm	55mm	384.5mm	283mm



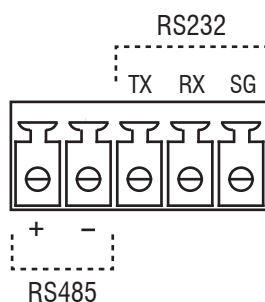
Connections

B-Type COM1 (DB-9-Female)	
Pin	Description
1	RS422 TXD+ /RS485+
2	RS232 RXD(COM1)
3	RS232 TXD(COM1)
4	RS422 RXD+
5	SG
6	RS422 TXD-/RS485-
7	RS232 TXD(COM3)
8	RS232 RXD(COM3)
9	RS422 RXD-

Power Supply



NOTE: Do not open the rear cover of the panel when power is applied



iView HMI - M Series

- In-built FTP functionality allowing remote download
- Three Serial Ports Inc. 1 x Screwless terminal
- In-built Ethernet Port for remote connectivity
- 2 x USB Ports (1 x USB A, 1 x USB B Ports)
- Remote Monitoring using VNC (Web) Server
- MicroSD for Data Logging
- In-built Offline Software Simulation
- Aluminium bezel versions available
- IP66 Rated



Options & Ordering Codes

Series Name	IV	04	M	-	S	E	A	P	Bezel Material
iView	IV							P	Plastic
Screen Size (Diagonal)		04						A	Aluminium (15.0" version only)
4.3"		04						A	COM Ports
7.0"		07							(RS232 / 485 / 422), (RS485 / 422), (RS232)
10.4"		10							Connectivity
15.0"		15				E			Ethernet
Hardware Specification			M		S				Operation
See Specifications			M		S				Standard

Specifications

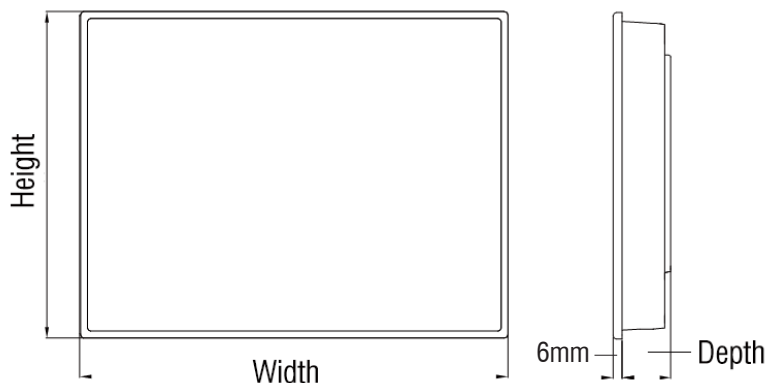
Ordering Codes	IV04M-SEAP	IV07M-SEAP	IV10M-SEAP	IV15M-SEAA
Size	4.3"	7.0"	10.4"	15.0"
Resolution / Colours	480 x 272 / 65K	800 x 480 / 65K	800 x 600 / 65K	1024 x 768 / 65K
System Memory	8 MB	8 MB	8 MB	8 MB
In-built Storage Memory	128 MB	128 MB	128 MB	128 MB
Battery Backup Memory	128 KB	128 KB	128 KB	128 KB
COM 1	RS 232/422/485	RS 232/422/485	RS 232/422/485	RS 232/422/485
COM 2	RS 232/485	RS 232/485	RS 232/485	RS 232/485
COM 3	RS 232	RS 232	RS 232	RS 232
USB	2	2	2	2
Real Time Clock	Built In	Built In	Built In	Built In
MicroSD Card	Up To 16 GB	Up To 16 GB	Up To 16 GB	Up To 16 GB
Certification	UL, CE, cUL	UL, CE, cUL	UL, CE, cUL	UL, CE, cUL
Ratings	IP66	IP66	IP66	IP66
Voltage Ratings	24VDC ±10% Isolated	24VDC ±10% Isolated	24VDC ±10% Isolated	24VDC ±10% Isolated
Power Ratings	10 W	20 W	20 W	20 W
Operating Temperature	-10°C to +60°C	-10°C to +60°C	-10°C to +60°C	-10°C to +60°C
Net Weight	0.35kg	0.6kg	1.2kg	2.68kg

iView HMI - M Series

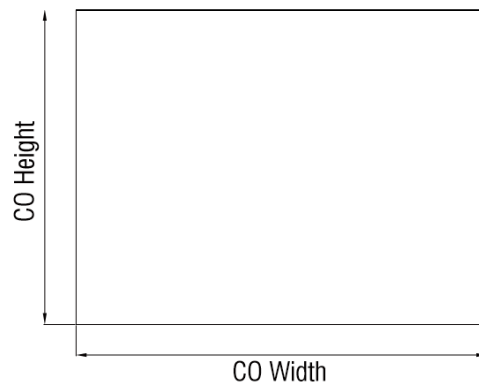
Accessories

Ordering Codes	MSD-16GB	iV-USB
Description	16 GB MicroSD Card	USB Programming Cable

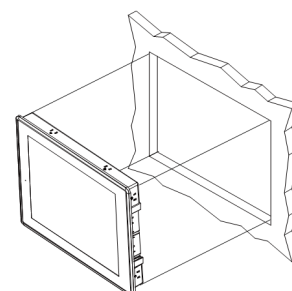
Dimensions



Cut Out Dimensions



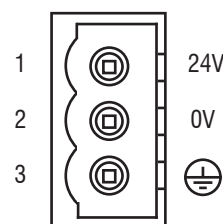
Model	Width	Height	Depth	CO Width	CO Height
IV04M-SEAP	130mm	106.2mm	39mm	119mm	93mm
IV07M-SEAP	188mm	143.3mm	36mm	175mm	132.5mm
IV10M-SEAP	270.1mm	212.1mm	42.5mm	259.5mm	201.5mm
IV15M-SEAA	399.1mm	297.6mm	55mm	384.5mm	283mm



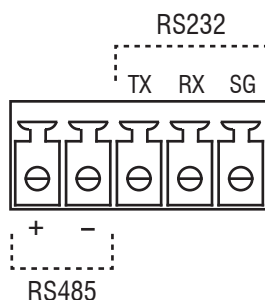
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B-Type COM1 (DB-9-Female)	
Pin	Description
1	RS422 TXD+/RS485+
2	RS232 RXD(COM1)
3	RS232 TXD(COM1)
4	RS422 RXD+
5	SG
6	RS422 TXD-/RS485-
7	RS232 TXD(COM3)
8	RS232 RXD(COM3)
9	RS422 RXD-

Power Supply



NOTE: Do not open the rear cover of the panel when power is applied



XGB Programmable Logic Controllers



Common Features

- Max. 5-Ch Communication with built-in functions and expansion modules
- Enhanced user interface with XG5000 / XG-PD
- Various monitoring functions
- Network diagnosis and monitoring
- Batteryless back-up
- Powerful communication: Built-in RS-232C / 485, 2 Expansions for communication
- Network configuration via Ethernet and Serial connection to iView HMI

XBC / XEC

- 83ns/step processing speed and floating-point arithmetic with on-board CPU
- Max 10 expansion modules, Max. 384 I/O point control: PLC systems for small and medium-scale applications

XBM

- 160ns/step processing speed and floating-point arithmetic with on-board CPU
- Max 7 expansion modules, max. 256 I/O point control: PLC Systems for small and medium-scale applications

IMO's new XGB range of programmable logic controllers represents a considerable leap forward in next generation PLC technology. The compact design, increased functionality, high speed processing and improved performance delivers maximum automation at minimum cost. The flexibility of the XGB means that it can be integrated into any solution with ease, from simple control to complex applications with the choice of two footprint styles depending on space. Utilising expansion cards, which are compatible with either style, the I/O can reach a maximum of 384 points, 5 communication ports and a scan speed of 83ns/step.

The powerful new software's enhanced user interface allows easy network diagnosis plus a variety of monitoring functions. The batteryless back-up guarantee's security of the program throughout the XGB's life cycle.



XGB PLC Main Units

PLC Type	XBM	XBC	XEC
Supply Voltage	24VDC	24VDC or 100-240VAC	24VDC or 100-240VAC
Relay Output Rating	2A Resistive	2A Resistive	2A Resistive
Transistor Output Rating	0.2A / point	0.5A / point	0.5A / point
Program Capacity	10k steps	15k steps	15k steps
Max I/O Points	240/256 ¹	352/384 ¹	352/384 ¹
Analog Input Resolution ²	14 Bit	14 Bit	14 Bit
Analog Output Resolution ²	14 Bit	14 Bit	14 Bit
PID Control	Yes	Yes	Yes
Programming Languages	Ladder	Ladder	IEC61131
High Speed Inputs	Yes	Yes	Yes
Positioning	Yes	Yes	Yes

¹ Main unit I/O + Maximum Expansion I/O

² When using Analog Expansion Units

Product Specification

Part Number	DI	RO (2A)	DO (0.2A)
XBM-DR16S	8	8	-
XBM-DN32S ³	16	-	16
XBC-DR32H	16	16	-
XBC-DR64H	32	32	-
XBC-DR32H/DC	16	16	-
XBC-DR64H/DC	32	32	-
XEC-DR32H	16	16	-
XEC-DR32H/DC-E ⁴	16	16	-
XEC-DR64H	32	32	-
XEC-DR64H/DC-E ⁴	32	32	-

⁴ 12VDC powered E-Marked PLC controller

Expansion Units & Accessories

Part Number	DI	Relay Out	DO (0.2A)	AI	AO	RTD	TC
XBE-DC16B	16	-	-	-	-	-	-
XBE-DC32A ³	32	-	-	-	-	-	-
XBE-RY16A	-	16	-	-	-	-	-
XBE-TN32A ³	-	-	32	-	-	-	-
XBE-TP32A ³	-	-	32	-	-	-	-
XBE-DR16A	8	8	-	-	-	-	-
XBF-AD04A	-	-	-	4	-	-	-
XBF-AH04A	-	-	-	2	2	-	-
XBF-DV04A	-	-	-	-	4	-	-
XBF-DC04A	-	-	-	-	4	-	-
XBF-RD04A	-	-	-	-	-	4	-
XBF-TC04S	-	-	-	-	-	-	4
XBL-EMTA	Ethernet comms module						
XEL-BSSA	Modbus I/O TCP adapters						
PMC -310S	Serial programming cable						
USB-301A	USB programming cable						

NOTE: Please contact IMO for more expansion modules.

Breakout Parts

Part Number	Description	Suits	Length M (if applicable)
R40H/20HH-05S-XBM3	Cable link to break out unit TG7-1H40S	XBM	0.5
C40HH-05SB-XBI	Cable link to break out unit TG7-1H40S	XBE	0.5
C40HH-10SB-XBI	Cable link to break out unit TG7-1H40S	XBE	1
TG7-1H40S	Screw I/O termination	XBM & XBE	-

³ Please contact IMO in order to correctly specify the required break-out parts and expansion modules.

iSmart Intelligent Relays



- Digital, Analogue and Temperature inputs
- Relay, Transistor and Analogue Outputs
- Powerful control logic in Ladder or Functional Block Diagram
- Available with or without Text HMI screen including programmable function keys
- PID control (up to 30 loops)
- Maths Functions
- Retentive Data Registers
- High Speed Inputs and PWM Outputs
- Link Function
- Multi-language Selectable
- Expansion modules for more I/O and more communication
- CD-type module connects iSmart - v3 to iView HMI



iSmart Base Units

PLC Type	AC Models	DC Models
Supply Voltage	85-264 or 19.6-28.8VAC	19.6-28.8V or 10.2-13.8VDC
Output Rating	8A Relay, 0.5A Transistor	
Timers	31 (Ladder) or 250 (FBD)	
Counters	31 (Ladder) or 250 (FBD)	
Analogue Input Resolution	N/A	12 bit (0.01V)
Analogue Output Resolution	N/A	12 bit (V, mA)
Function Keys (Not in blind version)	8	8
High Speed Inputs	None	2

Product Specification

Part Number	Supply	DI	Relay Out	AI	Screen
SMT-EA-R10-V3	AC	6	4	-	Y
SMT-EA-R20-V3	AC	12	8	-	Y
SMT-ED-R12-V3	DC	8	4	2	Y
SMT-ED-R20-V3	DC	12	8	4	Y
SMT-ED12-R12-V3	12VDC	8	4	2	Y
SMT-BA-R10-V3	AC	6	4	-	N
SMT-BA-R20-V3	AC	12	8	-	N
SMT-BD-R12-V3	DC	8	4	2	N
SMT-BD-R20-V3	DC	12	8	4	N
SMT-CD-R20-V3	DC	12	8	4	Y

Accessories

Part Number	Supply	DI	Relay Out	Trn Out	AI	AO	PT100
SMT-MA-R8	100-240V	4	4	-	-	-	-
SMT-MD-R8	24VDC	4	4	-	-	-	-
SMT-MD-T8	24VDC	4	-	4	-	-	-
SMT-MD-4AI	24VDC	-	-	-	4	-	-
SMT-4PT	24VDC	-	-	-	-	-	4
SMT-2AO	24VDC	-	-	-	-	2	-
PC501	USB to Serial Adapter						
SMT-USB	USB Programming Cable						
SMT-PC03	Programming Cable						
SMT-PM04-V3	32k Flash Memory						

It makes sense to switch to IMO

We put more in, so you get more out...

- Wide range of products from Sensors to HMI's & PLC's
- The knowledge and experience to deliver the ultimate solutions
- Peace of mind with a 3 Year Warranty as standard



i³ Intelligent Controller



Remote I/Os



Temperature Controllers



XGB PLC



PLC Starter Kit



Proximity Sensors



Signal Conditioners



Photoelectric Sensors



Other IMO products available include Limit Switches, Level Controllers and much more.

IMO Worldwide Offices

IMO Precision Controls Limited

1000 North Circular Road
Staples Corner
London NW2 7JP
United Kingdom

Tel: 020 8452 6444
Fax: 020 8450 2274
Email: sales@imopc.com
Web: www.imopc.com

IMO Automazione

Viale A. Volta 127/a
50131 Firenze
Italia

Tel: 800 930 872 (toll free)
Fax: 8000 452 6445
Email: sales@imopc.com
Web: www.imopc.it

IMO Russia

Office N° 4063
9, Zemlyanoy Val, 105064
Moscow
Russia

Tel: 8 800 100 8540 (toll free)
Fax: 8 800 100 8541
Email: sales@imopc.com
Web: www.imopc.com

IMO Jeambrun Automation SAS

Centre D'Affaires Rocroy
30, Rue de Rocroy
94100 Saint-Maur-Des-Fosses
France

Tel: 0800 912 712 (toll free)
Fax: 0145 134 737
Email: sales@imopc.com
Web: www.imojeambrun.fr

IMO Canada

Unit 32 - B - North
18 Stratheam Avenue, Brampton
Ontario L6T 4Y2
Canada

Tel: 905 799 9237 (local)
Fax: 905 799 0450
Email: sales@imopc.com
Web: www.imopc.com

IMO Pacific Pty Ltd

1/34 Fallon Road
Landsdale
Perth WA 6065
Australia

Tel: 08 9302 5246 (local)
Fax: 08 9303 9908
Email: sales@imopacific.com.au
Web: www.imopacific.com.au