

## iOS - Remote I/O system

- Analogue and Digital I/O modules
- Upto 16 bit resolution
- Configurable DC Voltage or Current inputs
- Configurable TC and RTD inputs
- Configurable DC Voltage or Current outputs
- 2KV isolation
- 12/24Vdc supply
- Removable screw terminals



iOS Remote I/O system uses serial communications to achieve a high speed and reliable interface between controller and the location of inputs and outputs. Configurable directly from the *i*<sup>3</sup> Integrated Controller, iOS offers a flexible and fast solution to systems requiring a high quantity of mixed I/O types not supported by conventional PLC systems.

Removable terminals provides simple installation and maintenance while 2kV isolated I/O points ensure accurate and noise free integration of analogue signals.

### Available Models:

iOS / M 04 I P X - D1	Input - 4 Channel RTD
iOS / M 04 I V X - D1	Input - 4 Channel DC voltage
iOS / M 04 I T X - D1	Input - 4 Channel TC
iOS / M 04 I C X - D1	Input - 4 Channel DC current
iOS / M 08 I C X - D1	Input - 8 Channel DC current
iOS / M 08 I V X - D1	Input - 8 Channel DC voltage
iOS / M 08 I T X - D1	Input - 8 Channel TC Input
iOS / M 02 O X A - D1	Output - 2 Channel DC Voltage / Current
iOS / M 04 O X A - D1	Output - 4 Channel DC Voltage / Current
iOS / M 08 O X V - D2	Output - 8 Channel DC Voltage
iOS / M 08 B D R - D1	Input / Output - 4 digital inputs + 4 Relay outputs
iOS / M 12 I D X - D1	Input - 12 Channel Digital Inputs
iOS / M 12 B D D - D1	Input / Output - 4 digital inputs + 8 Transistor outputs

# General Specification

	iOS/M04IVX-D1	iOS/M08IVX-D1	iOS/M04ICX-D1	iOS/M08ICX-D1	iOS/M04IPX-D1	iOS/M04ITX-D1	iOS/M08ITX-D1	iOS/M02OXA-D1	iOS/M04OXA-D1	iOS/M08OXY-D2	iOS/M08BDR-D1	iOS/M12IDX-D1	iOS/M12BDD-D1
No. Channels	4	8	4	8	4	4	8	2	4	8	4 + 4	12	4 + 8
Input Type	DC Voltage		DC Current		RTD		Thermocouple		DC x 4			DC	DC x 4
Output Type								DC Volt / mA		DC Volt	Relay x 4		NPN x 8
Range	± 10V	± 20mA	PT100, Ni100, PT1000, Ni1000, 0-2000Ω, 0-500Ω		J,K,R,S,B,E,T,N,±50mV,±100mV,±500mV,±1mV			0-10V or 0-20mA		0-10V	12/24Vdc		
Resolution	16 bit		0.1°C / 0.1Ω		0.1°C / 0.001mV			14 bit		14 bit			
Linearity	± 0.1%												
Input Impedence	100KΩ	<50Ω			>10MΩ					4.7KΩ			
Accuracy	± 0.1% FS												
Excitation			350μA (typical)										
Load Resistance								V: >5KΩ I: <500Ω		>5KΩ			
Output Calibration								V: ±10mV I:±20μA		±10mV			
Auxiliary Voltage								12V @ 20mA (4 Channels)					
Input Logic											0=<3V, 1=>10V		0=<2V, 1=>4V
Output Rating											2A (250Vac/30Vdc)		600mA / channel
Minimum Load											5Vdc, 10mA		
Maximum Voltage											250Vac/110Vdc		
Maximum Load													3A
Supply Voltage	10 - 30Vdc							18 - 30Vdc		10 - 30 Vdc			
Power consumption	30mA @ 24Vdc									45mA @ 24Vdc	35mA @ 24Vdc	45mA @ 24Vdc	
Isolation	2000Vac 50Hz, 60 sec												
Communication	Modbus (RTU/ASCII)												
Default Parameters	38400,N,8,1, ID1												
Supported Commands	1,2,3,4,5,6,8,15,16												
Dimensions (mm / inch)	17.5 x 100 x 120 / 0.69" x 3.94" x 4.72"												
Terminals	Removable Screw type												
Storage Temp	-40° to +85°C												
Operating Temp	-10° to +60°C												
Relative Humidity	5 - 90% non condensing												
Weight	150g (6oz)									210g (8.4oz)	150g (6oz)		



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- Cam Switches
- Din Terminals
- Drives
- Enclosures
- Fieldbus remote I/O
- Isolators & Switch Fuses
- MCB & RCD
- Motor Circuit Breakers
- Motor Control Gear
- Panel Meters
- Relays
- Signal Conditioning
- Sockets
- Timers
- Transformers & Power Supplies



- Drives
- Intelligent Terminals/HMI
- Limit Switches
- Photoelectric Switches
- PLCs
- Proximity Switches
- Temperature Controls



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- Lightguards
- Safety Limit Switches
- Safety Relays



- Jaguar VXM 0.37-500KW
- Jaguar VXSM 0.37-7.5KW
- Jaguar CUB 0.37-2.2KW



- Audible devices
- Chip-on-Board
- Device programmers
- LEDs & 7 seg. displays
- PCB Terminal blocks
- Relays - automotive
- Relays - power
- Relays - signal
- Switches

All IMO products are tried, tested and approved to relevant international quality standards

