

VersaMax® I/O and Control

혁신적인 모듈구조를 채용한 VersaMax는 높은 성능과 다양성을 가지고 있습니다. 이러한 특성은 사용자가 콤팩트하고 합리적인 제어 어플리케이션을 구성할 수 있게 합니다.

VersaMax는 I/O 및 PLC, 분산제어기로 사용될 수 있으며 4096개의 I/O까지 관찰할 수 있습니다.
모듈 구조의 구조와 직관적인 기능, 손쉬운 사용법은기계 제작자들과 사용자들의 시간과 돈을 세이브해 줍니다.

VersaMax는 독자적인 6 시그마 설계 공법을 통해 만들어진 GE Fanuc의 첫 컨트롤러입니다. 6 Sigma는 글로벌 한 연구 및 개발능력을 취합해 고객의 요구와 품질들을 만족할 수 있는 제품을 만들 수 있게 도왔습니다.

VersaMax I/O와 컨트롤 제품 군은 다양한 I/O모듈과 터미널, 파워 서플라이, 네트워크 인터페이스 옵션을 제공합니다.

Proficiency™ Machine Edition

Proficiency™ Machine Edition은 장비 레벨 자동화의 개발 및 관리를 위한 진보된 소프트웨어 툴입니다.
터치 패널, 모션 제어, 로직 수행들을 하나의 프로그램 툴 안에서 개발할 수 있습니다.

Power Supplies page 116

I/O Network Interface Units pages 137-138

Analog I/O Modules pages 133-135

Discrete I/O Modules pages 119-132

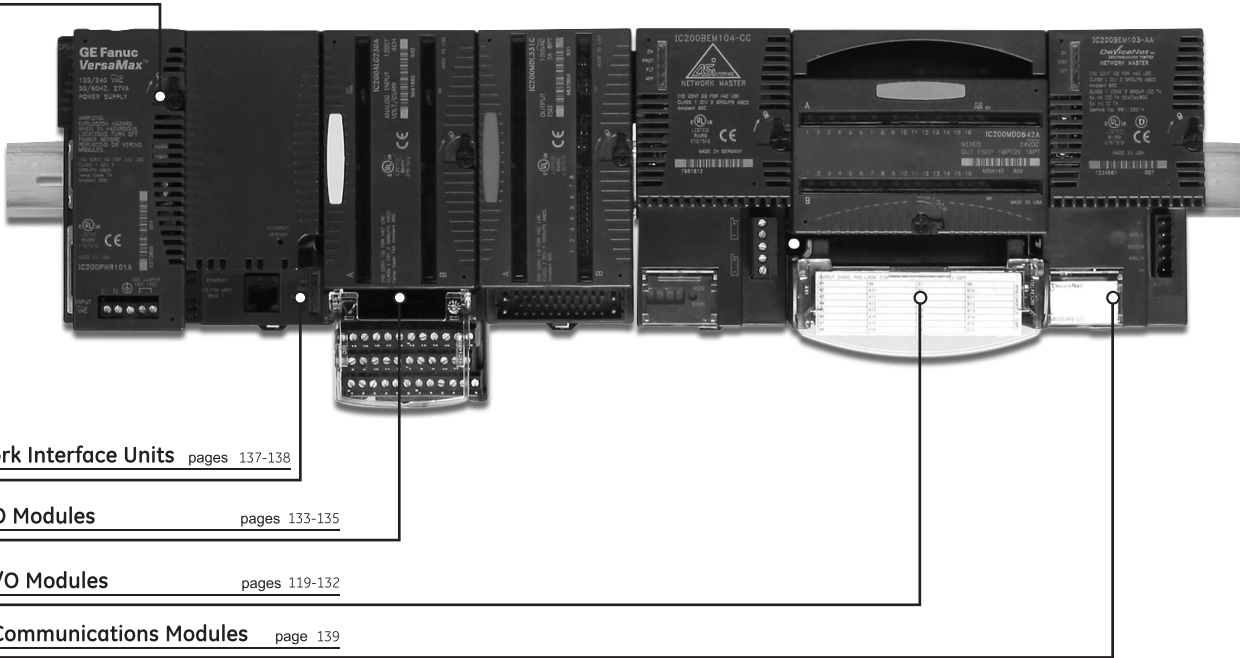
Network Communications Modules page 139

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Publication Reference Chart

GFK-1179	Installation Requirements for Conformance to Standards
GFK-1503	VersaMax PLC User's Manual
GFK-1504	VersaMax Modules, Power Supplies, and Carriers User's Manual
GFK-1533	VersaMax System DeviceNet Communications Modules User's Manual
GFK-1534	VersaMax System Profibus Network Modules User's Manual
GFK-1535	VersaMax System Genius Network Interface Unit User's Manual
GFK-1563	VersaMax I/O and Industrial Networking Application Guide

GFK-1697	VersaMax System AS-i Network Master Module User's Manual
GFK-1847	Remote I/O Manager User's Manual
GFK-1852	VersaMax Serial to Ethernet Adapter User's Manual
GFK-1860	VersaMax System Ethernet Network Interface Unit User's Manual
GFK-1868	Proficiency Machine Edition Getting Started Guide
GFK-1876	VersaMax Ethernet Station Manager Manual
IC690CDU002	InfoLink for PLC CD-ROM



CPU

VersaMax CPU는 많은 성공을 거둔 PLC들이 가지고 있는 다양한 기능들을 가지고 있습니다.

어플리케이션을 위한 64K 메모리와 실수 연산, 실시간 시계들을 내장하고 있으며 확장이 용이한 모듈구조를 가진 VersaMax CPU는 단독 제어 어플리케이션에 이상적인 솔루션입니다.

로컬 I/O를 256개까지 관장하며 확장 시스템으로 4,096개의 I/O까지 관장할 수 있습니다.

	IC200CPU001	IC200CPU002	IC200CPU005	IC200CUE05
Product Name	VersaMax PLC CPU 32K Configurable Memory, 2 Ports RS-232 and RS-485	VersaMax PLC CPU 42K Configurable Memory, 2 Ports RS-232 and RS-485	VersaMax PLC CPU 128K Configurable User Memory, 2 Ports RS-232 and RS-485	VersaMax PLC CPU 128K Configurable User Memory, 2 Ports RS-232 and RS-485, 10 MBIT Ethernet Port
I/O Discrete Points	2048 in, 2048 out	2048 in, 2048 out	2048 in, 2048 out	2048 in, 2048 out
I/O Analog Words	Configurable	Configurable	Configurable	Configurable
Registers	Configurable	Configurable	Configurable	Configurable
Discrete Internal Bits	1024 points	1024 points	1024 points	1024 points
Discrete Temporary Bits	256 points	256 points	256 points	256 points
Global Discrete Bits	1280 points	1280 points	1280 points	1280 points
Program Memory	Configurable	Configurable	Configurable	Configurable
Boolean Execution Speed	1.8 ms/K (typical)	1.8 ms/K (typical)	0.8 ms/K (typical)	0.8 ms/K (typical)
Floating Points	Yes	Yes	Yes	Yes
Override	Yes	Yes	Yes	Yes
Built-in Communications	SNP Slave, RTU Master and Slave, Serial I/O	SNP Slave, RTU Master and Slave, Serial I/O	SNP Slave, RTU Master and Slave, Serial I/O	10 MBIT Ethernet Port, SNP Slave, RTU Master and Slave, Serial I/O
Type of Memory Storage	System flash, battery-backed RAM	System flash, battery-backed RAM	System flash, battery-backed RAM	System flash, battery-backed RAM
Battery-Backed Real-Time Clock	Yes	Yes	Yes	Yes
Power Consumption	140 mA maximum on 5 V output, 100 mA on +3.3 V output	141 mA maximum on 5 V output, 100 mA on +3.3 V output	180 mA maximum on 5 V output, 290 mA on +3.3 V output	260 mA maximum on 5 V output, 650 mA on +3.3 V output
5V Backplane Current Consumption (mA)	40/140	40/140	80/180	160/260
3.3V Backplane Current Consumption (mA)	100	290	650	650



캐리어

VersaMax는 배선의 편리함과 핫 인젝션 및 리무벌 기능을 제공하기 위해 다양한 부착 형 I/O 캐리어와 인터포징 터미널을 가지고 있습니다.

VersaMax 캐리어는 IEC 박스 스타일, 스프링 스타일, 배리어 스타일의 터미널을 지원하며 취부형 보조 터미널 스트립과 별도의 마운팅이 가능한 인터포징 터미널, I/O 케이블로 연결이 가능한 커넥터 스타일 캐리어를 선택할 수 있습니다.

	IC200CHS001	IC200CHS002	IC200CHS003	IC200CHS005	IC200CHS006	IC200CHS011
Product Name	VersaMax I/O Carrier, Local Barrier Style	VersaMax I/O Carrier, Local Box Style	VersaMax I/O Carrier, Connector Style	VersaMax I/O Carrier, Local Spring Clamp Connection Style	VersaMax I/O, Local Communications Carrier	VersaMax I/O Carrier, Interposing Barrier Style
Field Termination Type	Integrated	Integrated	Integrated	Integrated	Communications	Non-Integrated
Connection Style	Barrier	Box	Connector	Spring	N/A	Barrier

	IC200CHS012	IC200CHS014	IC200CHS015	IC200CHS022	IC200CHS025	IC200PWB001
Product Name	VersaMax I/O Carrier, Interposing Box Style	VersaMax I/O Carrier, Interposing Box Thermocouple Compensation	VersaMax I/O, Carrier Interposing Spring Clamp	VersaMax Compact I/O Carrier, Local Box Clamp Connection Style	VersaMax Compact I/O Carrier, Local Spring Clamp Connection Style	VersaMax Power Supply Booster Carrier
Field Termination Type	Non-Integrated	Integrated	Non-Integrated	Integrated	Integrated	Power Supply
Connection Style	Box	Box-Thermocouple Compensation	Spring	Local Box	Local Sprint	N/A



파워 서플라이

VersaMax 파워 서플라이 모듈은 모든 VersaMax CPU와 네트워크 인터페이스 유닛, 파워 부스트 캐리어에 장착할 수 있습니다.

각 파워 서플라이는 I/O 스테이션의 메인 파워로 사용될 수 있으며 대용량 I/O 어플리케이션의 보조 파워 공급기로도 사용될 수 있습니다.

	IC200PWR001	IC200PWR002	IC200PWR101	IC200PWR102	IC200PWR201	IC200PWR202
Product Name	24VDC Power Supply	24VDC Power Supply with Expanded 3.3 V	120/240VAC Power Supply	120/240VAC Power Supply with Expanded 3.3 VDC	12 VDC Power Supply	12 VDC Power Supply with Expanded 3.3 VDC
Input Voltage	24 VDC	24 VDC	120/240 VAC	120/240 VAC	9.6-15 VDC, 12 VDC nominal	9.6-15 VDC, 12 VDC nominal
Output Voltage	5 VDC, 3.3 VDC	5 VDC, 3.3 VDC	5 VDC, 3.3 VDC	5 VDC, 3.3 VDC	5 VDC, 3.3 VDC	5 VDC, 3.3 VDC
Extended Power	No	Yes	No	Yes	No	Yes
Input Power	11 W	11 W	27 VA	27 VA	11 W	11 W
Holdup Time	10 ms	10 ms	20 ms	20 ms	10 ms	10 ms
Inrush Current	20 A @ 24 VDC; 25 A @ 30 VDC	20 A @ 24 VDC; 25 A @ 30 VDC			25 A at 12 VDC; 30 A at 15 VDC	25 A at 12 VDC; 30 A at 15 VDC
Protection	Short circuit, overload, reverse polarity	Short circuit, overload, reverse polarity	Short circuit, overload	Short circuit, overload	Short circuit, overload, reverse polarity	Short circuit, overload, reverse polarity
Total Output Current	1.5 A maximum	1.5 A maximum	1.5 A maximum	1.5 A maximum	1.5 A maximum	1.5 A maximum
3.3V Output Current	0.25 A maximum	1.0 A maximum	0.25 A maximum	1.0 A maximum	0.25 A maximum	1.0 A maximum
5V Output Current	1.5 A-I(3.3V) maximum	1.5 A-I(3.3V) maximum	1.5 A-I(3.3V) maximum	1.5 A-I(3.3V) maximum	1.5 A-I(3.3V) maximum	1.5 A-I(3.3V) maximum

디스크리트 I/O 모듈



디스크리트 입력 모듈은 센서 및 푸쉬버튼, 스위치와 같이 두 개의 상태(On/Off, Open/Close)를 가지는 입력 장비로부터 신호를 받을 수 있습니다.

디스크리트 출력 모듈은 컨택터, 표시램프 및 인터포싱 릴레이와 같이 두 개의 상태를 가지는 장비로 제어 신호를 보낼 수 있습니다.

디스크리트 혼합 모듈은 컴팩트한 모듈에 시그널의 입력 및 출력을 혼합해 극대화된 유연성을 제공합니다.

	IC200MDD840	IC200MDD841	IC200MDD842
Product Name	VersaMax Discrete Mixed Modules, 24VDC Pos Logic Input 20 points/Output Relay 2.0 A, 12 points	VersaMax Discrete Mixed Modules 24VDC Pos Logic Input 20/Output 12/HSC, PWM or Pulse Train	VersaMax Discrete Mixed Modules 24VDC Pos Logic Input 16/Output 24 VDC 0.5 A with ESCP
Input Voltage	24 VDC	24 VDC	24 VDC
Output Voltage	0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal	24 VDC	24 VDC
Number of Points	20 in/12 out	20 in/12 out/4 configurable	16 in/16 out
Channel to Channel Isolation	No	No	No
Load Current per Point	2.0 A for 5-265 VAC, 2.0 A for 5-30 VDC	N/A	0.5 A for 30 VDC
Input and Output Response Time- On/Off(ms)	0.5 and 10	7 and 0.5	0.5 and 0.5
Protection	No internal fuses or snubbers	No internal fuses	Short circuit protection, overcurrent protection, free-wheeling diodes
Points per Common			
On State Current	2-50.5 mA	3.0-8.0 mA	
Off State Current	0-0.5 mA	0-0.5 mA	0-0.5 mA
External Power Supply	0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal	24 VDC nominal, 18-30 VDC	18-30 VDC, 24 VDC nominal
Input Impedance	10 kOhms maximum	9.6 kOhms maximum	10 kOhms maximum
Load Current	2.0 A for 5-265 VAC or 5-30 VDC, 0.2 A for 31-125 VDC	0.5 A maximum	
5V Backplane Current Consumption (mA)	375 maximum	30	100 maximum
LED Indicators	One LED per point shows individual point on/off state; OK LED indicates backplane power is present	One LED per point shows individual point on/off state; FLD PWR indicates field power is present; OK LED indicates backplane power is present	One green LED per point shows individual point on/off state. One amber LED per point shows individual point overloads for outputs. FLD PWR LED indicates field power is present. OK LED indicates backplane power is present.

디스크리트 I/O 모듈



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디스크리트 출력 모듈은 컨택터, 표시램프 및 인터포싱 릴레이와 같이 두 개의 상태를 가지는 장비로 제어 신호를 보낼 수 있습니다.

디스크리트 혼합 모듈은 컴팩트한 모듈에 시그널의 입력 및 출력을 혼합해 극대화된 유연성을 제공합니다.

	IC200MDD843	IC200MDD844	IC200MDD845
Product Name	VersaMax Discrete Mixed Modules 24VDC Positive Logic Input 10/Output Relay 6	VersaMax Discrete Mixed Modules 24VDC Positive Logic Input 16/Output 24 VDC 0.5 A 16	VersaMax Discrete Mixed Modules 24VDC Positive Logic Input 16/Output Relay 2.0A Isolated 8 points
Input Voltage	24 VDC	24 VDC	24 VDC
Output Voltage	0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal	24 VDC	0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal
Number of Points	10 in/6 out	16 in/16 out	16 in/8 out
Channel to Channel Isolation	No	No	Yes, outputs
Load Current per Point	2.0 A for 5-265 VAC, 2.0 A for 5-30 VDC, 0.2 A for 31-125 VDC	0.5 A for 30 VDC	2.0 A for 5-265 VAC, 2.0 A for 5-30 VDC, 0.2 A for 31-125 VDC
Input and Output Response Time- On/Off(ms)	0.5 and 10	0.5 and 0.2/1	0.5 and 10
Protection	No internal fuses or snubbers	No internal fuses	No internal fuses or snubbers
Points per Common			
On State Current			
Off State Current	0-0.5 mA	0-0.5 mA	0-0.5 mA
External Power Supply	0-125 VDC, 5/24/125 VDC nominal, 0-265 VAC (47-63 Hz), 120/240 VAC nominal	18-30 VDC, 24 VDC nominal	0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal
Input Impedance	10 kOhms maximum	10 kOhms maximum	10 kOhms maximum
Load Current			
5V Backplane Current Consumption (mA)	190 maximum	70 maximum	270 maximum
LED Indicators	One LED per point shows individual point on/off state. OK LED indicates backplane power is present	One LED per point shows individual point on/off state; FLD PWR LED indicates field power is present; OK LED indicates backplane power is present	One green LED per point shows individual point on/off state. OK LED indicates backplane power is present

디스크리트 I/O 모듈



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디스크리트 출력 모듈은 컨택터, 표시램프 및 인터포싱 릴레이와 같이 두 개의 상태를 가지는 장비로 제어 신호를 보낼 수 있습니다.

디스크리트 혼합 모듈은 컴팩트한 모듈에 시그널의 입력 및 출력을 혼합해 극대화된 유연성을 제공합니다.

	IC200MDD846	IC200MDD847	IC200MDD848
Product Name	VersaMax Discrete Mixed Modules 120VAC Input 8 points/Outputpoints Relay 2.0A Isolated 8 points	VersaMax Discrete Mixed Modules 240VAC Input 8 points/Output Relay 2.0A Isolated 8 points	VersaMax Discrete Mixed Modules 120VAC Input 8 points/Output 120VAC 0.5A Isolated 8 points
Input Voltage	120 VAC	240 VAC	120 VAC
Output Voltage	0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal	0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal	120 VAC
Number of Points	8 in/8 out	8 in/8 out	8 in/8 out
Channel to Channel Isolation	Yes, outputs	Yes, outputs	Yes
Load Current per Point	2.0 A for 5-265 VAC, 2.0 A for 5-30 VDC, 0.2 A for 31-125 VDC	2.0 A for 5-265 VAC, 2.0 A for 5-30 VDC, 0.2 A for 31-125 VDC	10 mA min, 0.5 A max, 5 A for 1 cycle (20 ms) max inrush
Input and Output Response Time-On/Off(ms)	1 cycle/2 cycle and 10	1 cycle/2 cycle and 10	1 cycle/2 cycle and <1/2 cycle/<1/2 cycle
Protection	No internal fuses or snubbers	No internal fuses or snubbers	Snubber and MOVs (each output)
Points per Common			
On State Current	5 mA minimum	4 mA minimum	5 mA minimum
Off State Current	2.5 mA maximum	1.5 mA maximum	2.5 mA maximum
External Power Supply	0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal	0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal	0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal
Input Impedance	8.6 kOhms (reactive) at 60 Hz, typical; 10.32 kOhms (reactive) at 50 Hz, typical	38.5 kOhms (reactive) at 60 Hz, typical; 46.3 kOhms (reactive) at 50 Hz, typical	8.6 kOhms (reactive) at 60 Hz, typical; 10.32 kOhms (reactive) at 50 Hz, typical
Load Current			10 mA minimum per point, 0.5 A maximum per point, 5.0 A for one cycle (20 ms) maximum inrush
5V Backplane Current Consumption (mA)	300 maximum	300 maximum	125 maximum
LED Indicators	One LED per point shows individual point on/off state. OK LED indicates backplane power is present.	One LED per point shows individual point on/off state; OK LED indicates backplane power is present	One LED per point shows individual point on/off state. OK LED indicates backplane power is present

디스크리트 I/O 모듈



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	IC200MDD849	IC200MDD850	IC200MDD851
Product Name	VersaMax Discrete Mixed Modules 120 VAC Input Isolated 8 points/Output Relay 2.0 A Isolated 8 points	VersaMax Discrete Mixed Modules 240 VAC Input Isolated 4 points/Output Relay 2.0 A Isolated 8 points	VersaMax Discrete Mixed Modules 5/12VDC Input 16 points/Output 12/24VDC 16 points
Input Voltage	0-132 VAC (47 to 63 Hz), 120 VAC nominal	0-264 VAC (47-63 Hz), 240 VAC nominal	0 to 15VDC, +5/12VDC Nominal
Output Voltage	0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal	0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal	+10.2 to +30VDC, +12/24VDC nominal
Number of Points	8 in/8 out	8 out/4 in	16 out/16 in
Channel to Channel Isolation	Yes	Yes	No
Load Current per Point	2.0 A	2.0 A	0.5 Amps at 30VDC maximum (resistive) 2.0amps maximum for 100ms inrush
Input and Output Response Time- On/Off(ms)	1 cycle/2 cycle and 10/10	1 cycle/2 cycle and 10/10	0.25ms maximum/0.2ms ON and 1.0ms OFF maximum
Protection	No internal fuses or snubbers	No internal fuses or snubbers	No internal fuses or snubbers
Points per Common			
On State Current	5 mA minimum	4 mA minimum	1.45mA minimum
Off State Current	2.5 mA maximum	1.5 mA maximum	0 to 0.7 mA maximum
External Power Supply			+10.2 to +30VDC, +12/24VDC nominal
Input Impedance	8.6 kOhms (reactive) at 60 Hz, typical; 10.32 kOhms (reactive) at 50 Hz, typical	38.5 kOhms (reactive) at 60 Hz, typical; 46.3 kOhms (reactive) at 50 Hz, typical	2.4kOhms typical @ 12VDC
Load Current	10 mA per point minimum; 2.0 A for 5-265 VAC maximum (resistive); 2.0 A for 5-30 VDC maximum (resistive); 0.2 A for 31-125 VDC maximum (resistive)	10 mA per point minimum; 2.0 A for 5-265 VAC maximum (resistive); 2.0 A for 5-30 VDC maximum (resistive); 0.2 A for 31-125 VDC maximum (resistive)	0.5 Amps at 30VDC maximum (resistive); 2.0 Amps maximum for 100ms inrush
5V Backplane Current Consumption (mA)	300 maximum	260 maximum	115 maximum
LED Indicators	One LED per point shows individual point on/off state. OK LED indicates backplane power is present	One LED per point shows individual point on/off state. OK LED indicates backplane power is present	One LED per point shows individual point on/off state. OK LED indicates backplane power is present

디스크리트 I/O 모듈



디스크리트 입력 모듈은 센서 및 푸쉬버튼, 스위치와 같이 두 개의 상태(On/Off, Open/Close)를 가지는 입력 장비로부터 신호를 받을 수 있습니다.

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디스크리트 혼합 모듈은 컴팩트한 모듈에 시그널의 입력 및 출력을 혼합해 극대화된 유연성을 제공합니다.

	IC200MDL140	IC200MDL141	IC200MDL143
Product Name	VersaMax Discrete Input Module 120 VAC, 8 points	VersaMax Discrete Input Module 240 VAC, 8 points	VersaMax Discrete Input Module 120 VAC Isolated, 8 points
Input Voltage	0-132 VAC	0-264 VAC	0-132 VAC
Output Voltage	N/A	N/A	N/A
Number of Points	8	8	8
Channel to Channel Isolation	No	No	Yes
Load Current per Point	N/A	N/A	N/A
Input and Output Response Time-On/Off(ms)	1 cycle/2 cycles	1 cycle/2 cycles	1 cycle/2 cycles
Protection			
Points per Common			
On State Current	5 mA minimum	7 mA minimum	5 mA minimum
Off State Current	2.5 mA maximum	1.5 mA maximum	2.5 mA maximum
External Power Supply	None	None	None
Input Impedance	8.6 kOhms (reactive) at 60 Hz, typical; 10.32 kOhms (reactive) at 50 Hz, typical	38.5 kOhms (reactive) at 60 Hz, typical; 46.3 kOhms (reactive) at 50 Hz, typical	8.6 kOhms (reactive) at 60 Hz, typical; 10.32 kOhms (reactive) at 50 Hz, typical
Load Current			
5V Backplane Current Consumption (mA)	55 maximum	55 maximum	50 maximum
LED Indicators	One LED per point shows individual point ON/OFF status. OK LED indicates backplane power is present	One LED per point shows individual point ON/OFF status. OK LED indicates backplane power is present	One LED per point shows individual point ON/OFF status. OK LED indicates backplane power is present

디스크리트 I/O 모듈



디스크리트 입력 모듈은 센서 및 푸쉬버튼, 스위치와 같이 두 개의 상태(On/Off, Open/Close)를 가지는 입력 장비로부터 신호를 받을 수 있습니다.

디스크리트 출력 모듈은 컨택터, 표시램프 및 인터포싱 릴레이와 같이 두 개의 상태를 가지는 장비로 제어 신호를 보낼 수 있습니다.

디스크리트 혼합 모듈은 컴팩트한 모듈에 시그널의 입력 및 출력을 혼합해 극대화된 유연성을 제공합니다.

	IC200MDL144	IC200MDL240	IC200MDL241
Product Name	VersaMax Discrete Input Module 240 VAC Isolated, 4 points	VersaMax Discrete Input Module, 120VAC Positive Logic, 16 points	VersaMax Discrete Input Module, 240VAC Positive Logic, 16 points
Input Voltage	0-264 VAC	0-132 VAC	0-264 VAC
Output Voltage	N/A	N/A	N/A
Number of Points	4	16	16
Channel to Channel Isolation	Yes	No	No
Load Current per Point	N/A	N/A	N/A
Input and Output Response Time- On/Off(ms)	1 cycle/2 cycles	1 cycle/2 cycles	1 cycle/2 cycles
Protection			
Points per Common		2 Groups of 8	2 Groups of 8
On State Current	7 mA minimum	5 mA minimum	4 mA minimum
Off State Current	3 mA maximum	2.5 mA maximum	1.5 mA maximum
External Power Supply	None	None	None
Input Impedance	38.5 kOhms (reactive) at 60 Hz, typical; 46.3 kOhms (reactive) at 50 Hz, typical	8.6 kOhms (reactive) at 60 Hz, typical; 10.32 kOhms (reactive) at 50 Hz, typical	38.5 kOhms (reactive) at 60 Hz, typical; 46.3 kOhms (reactive) at 50 Hz, typical
Load Current			
5V Backplane Current Consumption (mA)	30 maximum	110 maximum	110 maximum
LED Indicators	One LED per point shows individual point ON/OFF status. OK LED indicates backplane power is present	One LED per point shows individual point ON/OFF status. OK LED indicates backplane power is present	One LED per point shows individual point ON/OFF status. OK LED indicates backplane power is present

디스크리트 I/O 모듈



디스크리트 입력 모듈은 센서 및 푸쉬버튼, 스위치와 같이 두 개의 상태(On/Off, Open/Close)를 가지는 입력 장비로부터 신호를 받을 수 있습니다.

디스크리트 출력 모듈은 콘택터, 표시램프 및 인터포싱 릴레이와 같이 두 개의 상태를 가지는 장비로 제어 신호를 보낼 수 있습니다.

디스크리트 혼합 모듈은 컴팩트한 모듈에 시그널의 입력 및 출력을 혼합해 극대화된 유연성을 제공합니다.

	IC200MDL243	IC200MDL244	IC200MDL329
Product Name	VersaMax Discrete Input Module, 120 VAC Isolated, 16 points	VersaMax Discrete Input Module, 240 VAC Isolated, 8 points	VersaMax Discrete Output Module, 120 VAC, 0.5A per point Isolated, 8 points
Input Voltage	0-132 VAC	0-264 VAC	N/A
Output Voltage	N/A	N/A	85-132 VAC (47-63 Hz), 120 VAC nominal
Number of Points	16	8	8
Channel to Channel Isolation	Yes	Yes	Yes
Load Current per Point	N/A	N/A	0.5 A per point
Input and Output Response Time-On/Off(ms)	1 cycle/2 cycles	1 cycle/2 cycles	<1/2 cycle/<1/2 cycle
Protection			Snubber and MOVs (each output)
Points per Common			
On State Current	5 mA minimum	7 mA minimum	
Off State Current	2.5 mA maximum	3 mA maximum	
External Power Supply	None	None	85-132 VAC (47-63 Hz), 120 VAC nominal
Input Impedance	8.6 kOhms (reactive) at 60 Hz, typical; 10.32 kOhms (reactive) at 50 Hz, typical	38.5 kOhms (reactive) at 60 Hz, typical; 46.3 kOhms (reactive) at 50 Hz, typical	
Load Current			10 mA minimum per point, 0.5 A maximum per point, 5.0 A for one cycle (20 ms) maximum inrush
5V Backplane Current Consumption (mA)	100 maximum	60 maximum	70 maximum
LED Indicators	One LED per point shows individual point ON/OFF status. OK LED indicates backplane power is present	One LED per point shows individual point ON/OFF status. OK LED indicates backplane power is present	One LED per point shows individual point ON/OFF status. OK LED indicates backplane power is present

디스크리트 I/O 모듈



디스크리트 입력 모듈은 센서 및 푸쉬버튼, 스위치와 같이 두 개의 상태(On/Off, Open/Close)를 가지는 입력 장비로부터 신호를 받을 수 있습니다.

디스크리트 출력 모듈은 컨택터, 표시램프 및 인터포싱 릴레이와 같이 두 개의 상태를 가지는 장비로 제어 신호를 보낼 수 있습니다.

디스크리트 혼합 모듈은 컴팩트한 모듈에 시그널의 입력 및 출력을 혼합해 극대화된 유연성을 제공합니다.

	IC200MDL330	IC200MDL331	IC200MDL631
Product Name	VersaMax Discrete Output Module, 120 VAC 0.5A per point Isolated, 16 points	VersaMax Discrete Output Module, 120 VAC 2.0A per point Isolated, 8 points	VersaMax Discrete Input Module 125 VDC, Pos/Neg Logic, Isolated, 8 points
Input Voltage	N/A	N/A	0 to 150 VDC, 125 VDC nominal
Output Voltage	85-132 VAC (47-63 Hz), 120 VAC nominal	85-132 VAC (47-63 Hz), 120 VAC nominal	N/A
Number of Points	16	8	8 isolated inputs
Channel to Channel Isolation	Yes	Yes	Yes
Load Current per Point	0.5 A per point	2.0 A per point	N/A
Input and Output Response Time-On/Off(ms)	<1/2 cycle/<1/2 cycle	<1/2 cycle/<1/2 cycle	0.5 maximum
Protection	Snubber and MOVs (each output)	Snubber and MOVs (each output)	
Points per Common	Isolated points	Isolated points	
On State Current			1.0 mA minimum
Off State Current			0 to 0.1 mA maximum
External Power Supply	85-132 VAC (47-63 Hz), 120 VAC nominal	85-132 VAC (47-63 Hz), 120 VAC nominal	None
Input Impedance			74 K Ohm typical at 125 VDC
Load Current	10 mA minimum per point, 0.5 A maximum per point, 5.0 A for one cycle (20 ms) maximum inrush	10 mA minimum per point, 2.0 A maximum per point, 20 A for one cycle (20 ms) maximum inrush	
5V Backplane Current Consumption (mA)	140 maximum	85 maximum	40 maximum
LED Indicators	One LED per point shows individual point ON/OFF status. OK LED indicates backplane power is present	One LED per point shows individual point ON/OFF status. OK LED indicates backplane power is present	One LED per point shows individual point ON/OFF status. OK LED indicates backplane power is present

디스크리트 I/O 모듈



디스크리트 입력 모듈은 센서 및 푸쉬버튼, 스위치와 같이 두 개의 상태(On/Off, Open/Close)를 가지는 입력 장비로부터 신호를 받을 수 있습니다.

디스크리트 출력 모듈은 컨택터, 표시램프 및 인터포싱 릴레이와 같이 두 개의 상태를 가지는 장비로 제어 신호를 보낼 수 있습니다.

디스크리트 혼합 모듈은 컴팩트한 모듈에 시그널의 입력 및 출력을 혼합해 극대화된 유연성을 제공합니다.

	IC200MDL632	IC200MDL635	IC200MDL636
Product Name	VersaMax Discrete Input Module 125 VDC, Pos/Neg Logic, Isolated, 16 points	VersaMax Discrete Input Module 48 VDC, Pos/Neg Logic (2 Groups of 8), 16 points	VersaMax Discrete Input Module 48 VDC, Pos/Neg Logic (4 Groups of 8), 32 points
Input Voltage	0 to 150 VDC, 125 VDC nominal	0-60 VDC, 48 VDC nominal	0-60 VDC, 48 VDC nominal
Output Voltage	N/A	N/A	N/A
Number of Points	16 isolated inputs	16 inputs (2 groups of 8)	32 (4 groups of 8)
Channel to Channel Isolation	Yes	No	No
Load Current per Point	N/A	N/A	N/A
Input and Output Response Time-On/Off(ms)	0.5 maximum	0.5 maximum	0.5 maximum
Protection			
Points per Common			
On State Current	1.0 mA minimum	1.0 mA minimum	1.0 mA minimum
Off State Current	0 to 0.1 mA maximum	0 to 0.4 mA maximum	0 to 0.4 mA maximum
External Power Supply	None	None	None
Input Impedance	74 K Ohm typical at 125 VDC	28 K Ohm typical	28 K Ohm typical
Load Current			
5V Backplane Current Consumption (mA)	80 maximum	70 maximum	140 maximum
LED Indicators	One LED per point shows individual point ON/OFF status. OK LED indicates backplane power is present	One LED per point shows individual point ON/OFF status. OK LED indicates backplane power is present	One LED per point shows individual point ON/OFF status. OK LED indicates backplane power is present

디스크리트 I/O 모듈



디스크리트 입력 모듈은 센서 및 푸쉬버튼, 스위치와 같이 두 개의 상태(On/Off, Open/Close)를 가지는 입력 장비로부터 신호를 받을 수 있습니다.

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	IC200MDL640	IC200MDL643	IC200MDL644
Product Name	VersaMax Discrete Input Module, 24 VDC Positive Logic, 16 points	VersaMax Discrete Input Module, 5/12 VDC (TTL) Pos/Neg Logic, 16 points	VersaMax Discrete Input Module, 5/12 VDC (TTL) Pos/Neg Logic, 32 points
Input Voltage	0-30 VDC	0-15 VDC	0-15 VDC
Output Voltage	N/A	N/A	N/A
Number of Points	16	16	32
Channel to Channel Isolation	No	No	No
Load Current per Point	N/A	N/A	N/A
Input and Output Response Time- On/Off(ms)	0.5	0.25	0.25
Protection			
Points per Common	2 Groups of 8		
On State Current	2.0-5.5 mA	1.45 mA minimum	1.45 mA minimum
Off State Current	0-0.5 mA	0-0.7 mA maximum	0-0.7 mA maximum
External Power Supply	None	None	None
Input Impedance	10 kOhms maximum	2.4 kOhms at 12 VDC, typical	2.4 kOhms at 12 VDC, typical
Load Current			
5V Backplane Current Consumption (mA)	25 maximum	70 maximum	140 maximum
LED Indicators	One LED per point shows individual point ON/OFF status. OK LED indicates backplane power is present	One LED per point shows individual point ON/OFF status. OK LED indicates backplane power is present	One LED per point shows individual point ON/OFF status. OK LED indicates backplane power is present

디스크리트 I/O 모듈



디스크리트 입력 모듈은 센서 및 푸쉬버튼, 스위치와 같이 두 개의 상태(On/Off, Open/Close)를 가지는 입력 장비로부터 신호를 받을 수 있습니다.

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디스크리트 혼합 모듈은 컴팩트한 모듈에 시그널의 입력 및 출력을 혼합해 극대화된 유연성을 제공합니다.

	IC200MDL650	IC200MDL730	IC200MDL740
Product Name	VersaMax Discrete Input Module, 24VDC Positive Logic, 32 points	VersaMax Discrete Output Module, 24 VDC Positive Logic 2.0A per point w/ESCP, 8 points	VersaMax Discrete Output Module, 24 VDC Positive Logic, 0.5A per point, 16 points
Input Voltage	0-30 VDC	N/A	N/A
Output Voltage	N/A	17.5-30 VDC, 24 VDC nominal	10.2-30 VDC, 12/24 VDC nominal
Number of Points	32	8	16
Channel to Channel Isolation	No	No	No
Load Current per Point	N/A	2.0 A per point	0.5 A per point
Input and Output Response Time- On/Off(ms)	0.5	0.5	0.2/1.0
Protection		Short circuit protection, overcurrent protection (each output)	No internal fuses (each output)
Points per Common	2 Groups of 8	1 Group of 8	1 Group of 16
On State Current	2.0-5.5 mA		
Off State Current	0-0.5 mA		
External Power Supply	None	18-30 VDC, 24 VDC nominal	10.2-30 VDC, 12/24 VDC nominal
Input Impedance	10 kOhms maximum		
Load Current		2.0 A at 30 VDC maximum (resistive) per point, 8.0 A max per module	0.5 A at 30 VDC maximum (resistive); 2.0 A inrush maximum for 100 ms
5V Backplane Current Consumption (mA)	50 maximum	50 maximum	45 maximum
LED Indicators	One LED per point shows individual point ON/OFF status. OK LED indicates backplane power is present	One green LED per point shows individual point on/off state. One amber LED per point shows individual point overloads/short circuits. FLD PWR LED indicates field power is present. OK LED indicates backplane power is present.	One LED per point shows individual point ON/OFF state. FLD PWR LED indicates field power is present. OK LED indicates backplane power is present.

디스크리트 I/O 모듈



디스크리트 입력 모듈은 센서 및 푸쉬버튼, 스위치와 같이 두 개의 상태(On/Off, Open/Close)를 가지는 입력 장비로부터 신호를 받을 수 있습니다.

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	IC200MDL741	IC200MDL742	IC200MDL743
Product Name	VersaMax Discrete Output Module, 24 VDC Positive Logic, 0.5A per point w/ESCP, 16 points	VersaMax Discrete Output Module, 24 VDC Positive Logic 0.5A with ESCP, 32 points	VersaMax Discrete Output Module, 5/12/24 VDC Negative Logic, 0.5 A per point (1 group of 16) 16 points
Input Voltage	N/A	N/A	N/A
Output Voltage	18-30 VDC, 24 VDC nominal	0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal	5/12/24 VDC
Number of Points	16	32	16 (1 group of 16)
Channel to Channel Isolation	No	No	No
Load Current per Point	0.5 A per point	0.5 A per point	0.5 A per point
Input and Output Response Time-On/Off(ms)	0.5/0.5	0.5/0.5	0.2/1.0
Protection	Short circuit protection, overcurrent protection, free-wheeling diodes (each output)	Short circuit protection, overcurrent protection, free-wheeling diodes (each output)	No internal fuse
Points per Common	1 Group of 16		
On State Current			
Off State Current			
External Power Supply	18-30 VDC, 24 VDC nominal	18-30 VDC, 24 VDC nominal	4.75 to 5.25 VDC, 5 VDC nominal for 5 VDC-TTL mode; 10.2 to 30 VDC, 12/24 VDC nominal for 12/24 VDC mode
Input Impedance			
Load Current	0.5 A at 30 VDC maximum (resistive); 2.0 A inrush maximum for 100 ms	0.5 A at 30 VDC maximum (resistive); 2.0 A inrush maximum for 100 ms	25 mA maximum for 5VDC-TTL mode, 0.5 A at 30 VDC maximum, 2.0 A inrush maximum for 100 ms for 12/24 VDC mode
5V Backplane Current Consumption (mA)	75 maximum	150 maximum	70 maximum
LED Indicators	One green LED per point shows individual point on/off state. One amber LED per point shows individual point overloads. FLD PWR LED indicates field power is present. OK LED indicates backplane power is present.	One green LED per point shows individual point on/off state. One amber LED per point shows individual point overloads. FLD PWR LED indicates field power is present. OK LED indicates backplane power is present.	One LED per point shows individual point ON/OFF state. FLD PWR LED indicates field power is present. OK LED indicates backplane power is present.

디스크리트 I/O 모듈



디스크리트 입력 모듈은 센서 및 푸쉬버튼, 스위치와 같이 두 개의 상태(On/Off, Open/Close)를 가지는 입력 장비로부터 신호를 받을 수 있습니다.

디스크리트 출력 모듈은 컨택터, 표시램프 및 인터포싱 릴레이와 같이 두 개의 상태를 가지는 장비로 제어 신호를 보낼 수 있습니다.

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	IC200MDL744	IC200MDL750	IC200MDL930
Product Name	VersaMax Discrete Output Module, 5/12/24 VDC Negative Logic, 0.5 A per point (2 groups of 16) 32 points	VersaMax Discrete Output Module, 24 VDC Positive Logic, 0.5A per point, 32 points	VersaMax Discrete Output Module, Relay 2.0 A per point Isolated Form A, 8 points
Input Voltage	N/A	N/A	N/A
Output Voltage	5/12/24 VDC	10.2-30 VDC, 12/24 VDC nominal	0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal
Number of Points	32 (2 groups of 16)	32	8
Channel to Channel Isolation	No	No	Yes
Load Current per Point	0.5 A per point	0.5 A per point	2.0 A for 5-265 VAC, 2.0 A for 5-30 VDC, 0.2 A for 31-125 VDC
Input and Output Response Time-On/Off(ms)	0.2/1.0	0.2/1.0	10/10
Protection	No internal fuse	No internal fuses	No internal fuses or snubbers
Points per Common		2 Groups of 16	Isolated points
On State Current			
Off State Current			
External Power Supply	4.75 to 5.25 VDC, 5 VDC nominal for 5 VDC-TTL mode; 10.2 to 30 VDC, 12/24 VDC nominal for 12/24 VDC mode	10.2-30 VDC, 12/24 VDC nominal	0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal
Input Impedance			
Load Current	25 mA maximum for 5VDC-TTL mode, 0.5 A at 30 VDC maximum, 2.0 A inrush maximum for 100 ms for 12/24 VDC mode	0.5 A at 30 VDC maximum (resistive); 2.0 A inrush maximum for 100 ms	10 mA per point minimum; 2.0 A for 5-265 VAC maximum (resistive); 2.0 A for 5-30 VDC maximum (resistive); 0.2 A for 31-125 VDC maximum (resistive)
5V Backplane Current Consumption (mA)	140 maximum	90 maximum	245 maximum
LED Indicators	One LED per point shows individual point ON/OFF state. FLD PWR LED indicates field power is present. OK LED indicates backplane power is present.	One LED per point shows individual point ON/OFF state. FLD PWR LED indicates field power is present. OK LED indicates backplane power is present.	One LED per point shows individual point ON/OFF state. FLD PWR LED indicates field power is present. OK LED indicates backplane power is present.

디스크리트 I/O 모듈



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디스크리트 출력 모듈은 컨택터, 표시램프 및 인터포싱 릴레이와 같이 두 개의 상태를 가지는 장비로 제어 신호를 보낼 수 있습니다.

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IC200MDL940	
Product Name	VersaMax Discrete Output Module, Relay 2.0 A per point Isolated Form A, 16 points
Input Voltage	N/A
Output Voltage	0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal
Number of Points	16
Channel to Channel Isolation	Yes
Load Current per Point	2.0 A for 5-265 VAC, 2.0 A for 5-30 VDC, 0.2 A for 31-125 VDC
Input and Output Response Time- On/Off(ms)	10/10
Protection	No internal fuses or snubbers
Points per Common	Isolated points
On State Current	
Off State Current	
External Power Supply	0-125 VDC, 5/24/125 VDC nominal; 0-265 VAC (47-63 Hz), 120/240 VAC nominal
Input Impedance	
Load Current	10 mA per point minimum; 2.0 A for 5-265 VAC maximum (resistive); 2.0 A for 5-30 VDC maximum (resistive); 0.2 A for 31-125 VDC maximum (resistive)
5V Backplane Current Consumption (mA)	490 maximum
LED Indicators	One LED per point shows individual point ON/OFF state. FLD PWR LED indicates field power is present. OK LED indicates backplane power is present.

아날로그 I/O 모듈



아날로그 입력 모듈은 전류 및 전압 입력 장비로 부터 신호를 받을 수 있습니다.

특수 모듈은 RTD 및 서모커플을 대응합니다. 아날로그 출력 모듈은 아날로그 출력 장비에 전압 및 전류 시그널을 공급합니다.

아날로그 혼합 모듈은 단일 컴팩트 모듈에 입력 및 출력을 혼합해 극대화된 유연성을 제공합니다.

	IC200ALG230	IC200ALG240	IC200ALG260	IC200ALG261	IC200ALG262	IC200ALG263
Product Name	VersaMax Analog Input Module, 12 Bit Voltage/Current, 4 Channels	VersaMax Analog Input Module, 16 Bit Voltage/Current Isolated, 8 Channel	VersaMax Analog Input Module, 12 Bit Voltage/Current, 8 Channel	VersaMax Analog Input Module, 15 Bit Differential Voltage, 8 Channel	VersaMax Analog Input Module, 15 Bit Differential Current, 8 Channel	VersaMax Analog Input Module, 15 Bit Voltage, 15 Channel
Input Range	± 10 VDC or 0-10 VDC	± 10 VDC, 1-20 mA	± 10 VDC or 0-10 VDC	± 10 VDC	0 to 20mA or 4 to 20mA	± 10 VDC
Output Range	N/A	N/A	N/A	N/A	N/A	N/A
Channel to Channel Isolation	No	Yes	No	No	No	No
External Power Supply	None	Range: 19.5-30 VDC including ripple; Current consumption: 100 mA maximum plus load currents	None	None	None	None
Resolution	Bipolar mode: 2.5 mV = 8 counts, Unipolar mode: 2.5 mV = 8 counts		Bipolar mode: 2.5 mV = 8 counts Unipolar mode: 2.5 mV = 8 counts	Bipolar mode: 0.3125 mV = 1 counts	4 to 20mA: 0.5micro Amp= 1 count ; 0 to 20mA: 0.625micro Amp = 1 count	Bipolar mode: 0.3125 mV = 1 count
Update Rate	0.4 ms		0.4 ms	7.5 ms	7.5 ms	7.5 ms
Accuracy at 25°C	$\pm 0.3\%$ typical of full scale, $\pm 0.5\%$ maximum of full scale	$\pm 0.1\%$ maximum of full scale	$\pm 0.3\%$ typical of full scale, $\pm 0.5\%$ maximum of full scale	$\pm 0.3\%$ typical of full scale, $\pm 0.5\%$ maximum of full scale	$\pm 0.3\%$ typical of full scale, $\pm 0.5\%$ maximum of full scale	$\pm 0.3\%$ typical of full scale, 0.5% maximum of full scale
Input Impedance	Voltage mode: 126 kOhms maximum, Current mode: 200 Ohms maximum		Voltage mode: 126 kOhms, maximum, Current mode: 200 Ohms maximum	Voltage mode: 100 kOhms maximum	Current mode: 100 kOhms maximum	Voltage mode: 100 kOhms maximum
Input Filter Response	5.0 ms		5.0 ms			32 Hz $\pm 20\%$
5V Backplane Current Consumption (mA)	125 maximum	15 maximum	130 maximum	200 maximum	200 maximum	150 maximum
3.3V Backplane Current Consumption (mA)		120 maximum				
LED Indicators	INT PWR LED indicates internally-generated field power is present. OK LED indicates backplane power is present.	FLD PWR LED indicates the presence of both logic power and user power. OK LED indicates module status.	INT PWR LED indicates internally-generated field power is present. OK LED indicates backplane power is present.	INT PWR LED indicates internally-generated field power is present. OK LED indicates backplane power is present.	INT PWR LED indicates internally-generated field power is present. OK LED indicates backplane power is present.	INT PWR LED indicates internally-generated field power is present. OK LED indicates backplane power is present.

아날로그 I/O 모듈



아날로그 입력 모듈은 전류 및 전압 입력 장비로 부터 신호를 받을 수 있습니다.

특수 모듈은 RTD 및 서모커플을 대응합니다. 아날로그 출력 모듈은 아날로그 출력 장비에 전압 및 전류 시그널을 공급합니다.

아날로그 혼합 모듈은 단일 컴팩트 모듈에 입력 및 출력을 혼합해 극대화된 유연성을 제공합니다.

	IC200ALG264	IC200ALG320	IC200ALG321	IC200ALG322	IC200ALG325	IC200ALG327
Product Name	VersaMax Analog Input Module, 15 Bit Current, 15 Channel	VersaMax Analog Output Module, 12 Bit Current, 4 Channel	VersaMax Analog Output Module, 12 Bit 0-10V Voltage, 4 Channel	VersaMax Analog Output Module, 12 Bit $\pm 10V$ Voltage, 4 Channel	VersaMax Analog Output Module, 13 Bit $\pm 10VDC$ or 0 to 10VDC Voltage, 8 Channel	VersaMax Analog Output Module, 13 Bit $\pm 10VDC$ or 0 to 10VDC Voltage, 12 Channel
Input Range	0 to 20mA or 4 to 20mA	N/A	N/A	N/A	N/A	N/A
Output Range	N/A	4-20 mA	0-10 VDC	± 10 VDC	± 10 VDC or 0 to 10VDC	± 10 VDC or 0 to 10VDC
Channel to Channel Isolation	No	N/A	N/A	N/A	N/A	N/A
External Power Supply	None	Range: 18-30 VDC including ripple; Current consumption: 160 mA maximum including load current	Range: 18-30 VDC including ripple; Current consumption: 125 mA maximum	Range: 18-30 VDC including ripple; Current consumption: 125 mA maximum	Range: 18-30 VDC including ripple; Current consumption: 102 mA maximum	Range: 18-30 VDC including ripple; Current consumption: 112 mA maximum
Resolution	4 to 20mA: 0.5micro Amp= 1 count ; 0 to 20mA: 0.625micro Amp =1 count	4 uA = 8 counts	2.5 mV = 8 counts	5 mV = 16 counts	1.25 mV = 4 counts	1.25 mV = 4 counts
Update Rate	7.5 ms	0.3 ms maximum	0.3 ms maximum	0.3 ms maximum	15.0 ms maximum	10.0 ms maximum
Accuracy at 25°C	$\pm 0.3\%$ typical of full scale, $\pm 0.5\%$ maximum of full scale	$\pm 0.3\%$ typical of full scale, $\pm 0.5\%$ maximum of full scale	$\pm 0.3\%$ typical of full scale, $\pm 0.5\%$ maximum of full scale	$\pm 0.3\%$ typical of full scale, $\pm 0.5\%$ maximum of full scale	$\pm 0.3\%$ typical of full scale, $\pm 0.5\%$ maximum of full scale	$\pm 0.3\%$ typical of full scale, $\pm 0.5\%$ maximum of full scale
Input Impedance	Current mode: 100 kOhms maximum					
Input Filter Response	24 Hz $\pm 20\%$					
5V Backplane Current Consumption (mA)	100 maximum	50 maximum	50 maximum	50 maximum	50 maximum	50 maximum
3.3V Backplane Current Consumption (mA)						
LED Indicators	INT PWR LED indicates internally-generated field power is present. OK LED indicates backplane power is present.	FLD PWR LED indicates field power is present. OK LED indicates backplane power is present.	FLD PWR LED indicates field power is present. OK LED indicates backplane power is present.	FLD PWR LED indicates field power is present. OK LED indicates backplane power is present.	FLD PWR LED indicates field power is present. OK LED indicates backplane power is present.	FLD PWR LED indicates field power is present. OK LED indicates backplane power is present.

아날로그 I/O 모듈



아날로그 입력 모듈은 전류 및 전압 입력 장비로 부터 신호를 받을 수 있습니다.

특수 모듈은 RTD 및 서모커플을 대응합니다. 아날로그 출력 모듈은 아날로그 출력 장비에 전압 및 전류 시그널을 공급합니다.

아날로그 혼합 모듈은 단일 컴팩트 모듈에 입력 및 출력을 혼합해 극대화된 유연성을 제공합니다.

	IC200ALG331	IC200ALG430	IC200ALG431	IC200ALG432	IC200ALG620	IC200ALG630
Product Name	VersaMax Analog Output Module, 14 Bit Voltage/Current 1500VAC Isolation, 8 Channel	VersaMax Analog Mixed Module, 12 Bit Input Current 4 Channel/Output Current 2 Channel	VersaMax Analog Mixed Module, 12 Bit 0-10V Input 4 Channel/Output 0-10V 2 Channel	VersaMax Analog Mixed Module, 12 Bit±10V Input 4 Channel/Output ±10V 2 Channel	VersaMax Analog Input Module, 16 Bit RTD, 4 Channel	VersaMax Analog Input Module, 16 Bit Thermocouple, 7 Channel
Input Range	N/A	4-20 mA	0-10 VDC	-10 to +10 VDC	RTD	Thermocouple
Output Range	± 10 VDC, 4-20 mA	4-20 mA	0-10 VDC	-10 to +10 VDC	N/A	N/A
Channel to Channel Isolation	N/A	N/A	N/A	N/A	Yes	Yes
External Power Supply	Range: 19.5-30 VDC including ripple; Current consumption: 100 mA maximum plus load currents	Range: 18-30 VDC including ripple; Current consumption: 125 mA maximum	Range: 18-30 VDC including ripple; Current consumption: 125 mA maximum	Range: 18-30 VDC including ripple; Current consumption: 125 mA maximum	None	None
Resolution		4 uA = 8 counts	2.5 mV = 8 counts	Input: 2.5 mV = 8 counts, Output: 5 mV = 16 counts		
Update Rate		0.3 ms maximum	0.3 ms maximum	0.3 ms maximum		
Accuracy at 25°C	±0.1% maximum of full scale	±0.3% typical of full scale, ±0.5% maximum of full scale	±0.3% typical of full scale, ±0.5% maximum of full scale	±0.3% typical of full scale, ±0.5% maximum of full scale	Resistance: ±0.2% of reading, Temperature: ±2.0 degrees Celsius	On voltage measurement: ±0.2%, On temperature measurement: ± 3 degrees Celsius
Input Impedance		200 Ohms maximum	120 kOhms minimum	125 kOhms minimum		
Input Filter Response		5.0 ms	5.0 ms	5.0 ms		
5V Backplane Current Consumption (mA)	10 maximum	50 maximum	60 maximum	60 maximum	125 maximum	125 maximum
3.3V Backplane Current Consumption (mA)	115 maximum				125 maximum	125 maximum
LED Indicators	FLD PWR LED indicates the presence of both logic power and user power. OK LED indicates module status.	FLD PWR LED indicates field power is present. OK LED indicates backplane power is present.	FLD PWR LED indicates field power is present. OK LED indicates backplane power is present.	FLD PWR LED indicates field power is present. OK LED indicates backplane power is present.	OK LED: green indicates backplane power is present. Amber indicates module fault.	OK LED: green indicates backplane power is present. Amber indicates module fault.



확장 모듈

확장 모듈은 대형 어플리케이션에 적합한 구조적인 유연성을 위해 VersaMax PLC 및 I/O 스테이션을 각 8개의 모듈을 가진 7개의 스테이션으로 확장할 수 있습니다.

	IC200ERM001	IC200ERM002	IC200ETM001
Product Name	Expansion Receiver Module, Isolated	Expansion Receiver Module, Non-Isolated	Bus Transmitter Expansion Module
Distance	Up to 2460 feet	Up to 50 feet	N/A
5V Backplane Current Consumption (mA)	430 maximum	70 maximum	44 maximum
3.3V Backplane Current Consumption (mA)	20	20	
LED Indicators	PWR LED indicates 5 VDC power status; EXP RX LED indicates status of the expansion bus; SCAN indicates whether CPU/NIU is scanning I/O in expansion racks	PWR LED indicates 5 VDC power status; EXP RX LED indicates expansion bus communications status; SCAN indicates whether CPU/NIU is scanning I/O in expansion racks	PWR LED indicates 5 VDC power status; EXP TX LED indicates expansion bus communication status



I/O 네트워크 인터페이스 유닛

I/O 네트워크 인터페이스 유닛은 VersaMax I/O모듈을 호스트 PLC혹은 PLC와 통신으로 연결해주는 유닛입니다.

Genius, Profibus-DP, DeviceNet, Ethernet등의 통신을 지원합니다. I/O 스테이션의 NIU는 256개의 I/O 까지 관장 할 수 있습니다.

	IC200DBI001	IC200EBI001	IC200GBI001
Product Name	Remote I/O DeviceNet Network Interface Unit (Slave)	Remote I/O Ethernet Network Interface Unit	Genius Network Interface Unit
Input Power Type	N/A	Requires Expanded 3.3 V Power Supply	N/A
Expansion Type	N/A	Expansion Racks not supported	N/A
Distance	N/A	100 Meters max	N/A
I/O Discrete Points	256 bytes %Q, 256 bytes %I		
I/O Analog Words	256 byte %AI, 256 bytes %AQ		
I/O Data	256 Bytes of input, output, Analog input and Analog output		
Type of Memory Storage	RAM		
Network Data Rate	125 Kbaud, 250 Kbaud, 500 Kbaud	10/100 Mbaud	153.6 Kbaud extended, 153.6 Kbaud standard, 76.8 Kbaud, 38.4 Kbaud
Network Topology	Linear bus (trunkline/dropline); power and signal on the same network cable	Network dependent	Bus
Transmission Media	Shielded, dual twisted pair cable, terminated at both ends	Ethernet twisted pair	Shielded, twisted pair, fiber optic
Connector	5-pin open pluggable connector	RJ-45	
User Diagnostic Data	2 bytes of status/control	4	
Number of Modules	8 per NIU/station	8 per NIU/station	8 per NIU/station
Network Inputs per Bus Scan		250 bytes	128 bytes
Network Outputs per Bus Scan		250 bytes	128 bytes
Redundancy		No	Full media and hardware redundancy supported
5V Backplane Current Consumption (mA)		175	
3.3V Backplane Current Consumption (mA)		425	
LED Indicators		5	
Protocol		• Modbus TCP • EGD	



I/O 네트워크 인터페이스 유닛

I/O 네트워크 인터페이스 유닛은 VersaMax I/O모듈을 호스트 PLC혹은 PLC와 통신으로 연결해주는 유닛입니다.
Genius, Profibus-DP, DeviceNet, Ethernet등의 통신을 지원합니다. I/O 스테이션의 NIU는 256개의 I/O 까지 관장 할 수 있습니다

IC200PBI001	
Product Name	Remote I/O Profibus-DP Network Interface Unit (Slave)
Input Power Type	N/A
Expansion Type	N/A
Distance	N/A
I/O Discrete Points	
I/O Analog Words	
I/O Data	375 bytes maximum; up to 244 bytes of inputs or 244 bytes of outputs
Type of Memory Storage	
Network Data Rate	9.6 Kbaud to 12 Mbaud
Network Topology	Linear bus, terminated at both ends. Stubs are possible.
Transmission Media	Shielded, twisted pair cable
Connector	9-pin D-sub connector
User Diagnostic Data	2 bytes of status/control, 5 bytes of standard Profibus diagnostics
Number of Modules	8 per NIU/station
Network Inputs per Bus Scan	
Network Outputs per Bus Scan	
Redundancy	
5V Backplane Current Consumption (mA)	
3.3V Backplane Current Consumption (mA)	
LED Indicators	
Protocol	

네트워크 통신 모듈을 통해 VersaMax PLC를 제어 네트워크의 마스터 혹은 슬레이브로 운영할 수 있습니다. 현재 지원되는 통신모듈은 DeviceNet Master/Slave 통신모듈, Profibus-DP Slave통신모듈과 AS-i Master 통신모듈이 있습니다.

Accessories

IC200ACC001	Replacement Battery for VersaMax CPUs
IC200ACC003	EZ Program Store, CPU RS485 Port Update Device
IC200ACC201	Expansion Terminator QTY 1
IC200ACC202	Expansion Connector QTY 2
IC200ACC301	I/O Filler Module
IC200ACC302	I/O Input Simulator
IC200ACC303	I/O Shorting Bar QTY 2

Cables

IC200CBL600	Cable Expansion Shielded Single Ended 1M
IC200CBL601	Cable Expansion Shielded 2 Connectors 1M
IC200CBL602	Cable Expansion Shielded 2 Connectors 2M
IC200CBL615	Cable Expansion Shielded 2 Connectors 15M
IC200ACC304	I/O Cable Connector Kit QTY 2

Starter Kits

IC200PKG001	PLC Starter Kit CPU001
IC200PKG101	I/O Starter Kit GENIUS
IC200PKG102	I/O Starter Kit Profibus-DP
IC200PKG103	I/O Starter Kit DeviceNet