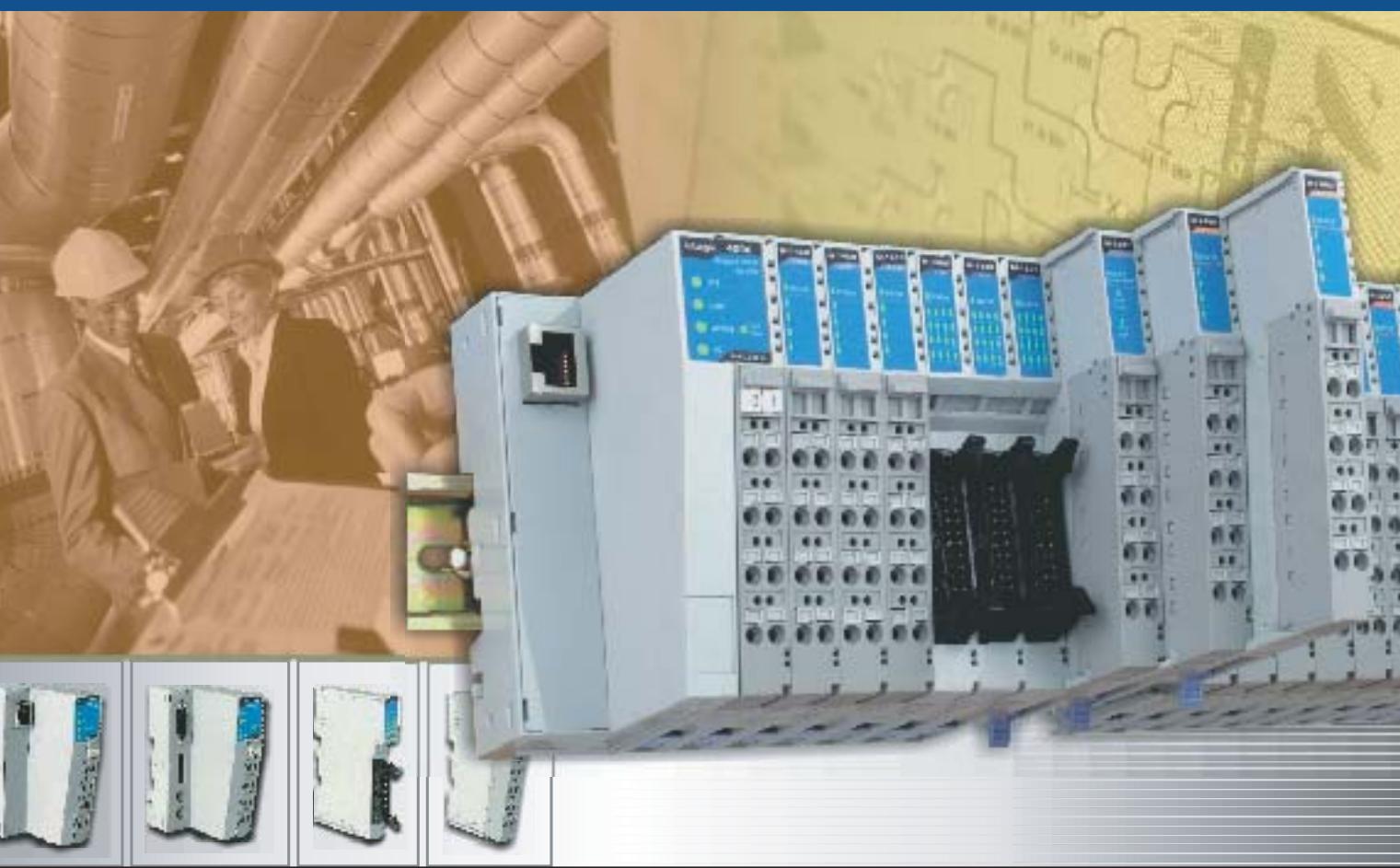


Industrial Ethernet I/O Solutions for Data Acquisition and Control



- › Network I/O Solution for SCADA Systems
- › IoLogik 4000 Network I/O Server
- › MODBUS/TCP, MODBUS/RTU/ASCII
- › Digital Input/Output Modules
- › Analog Input/Output Modules
- › Temperature Sensing Modules

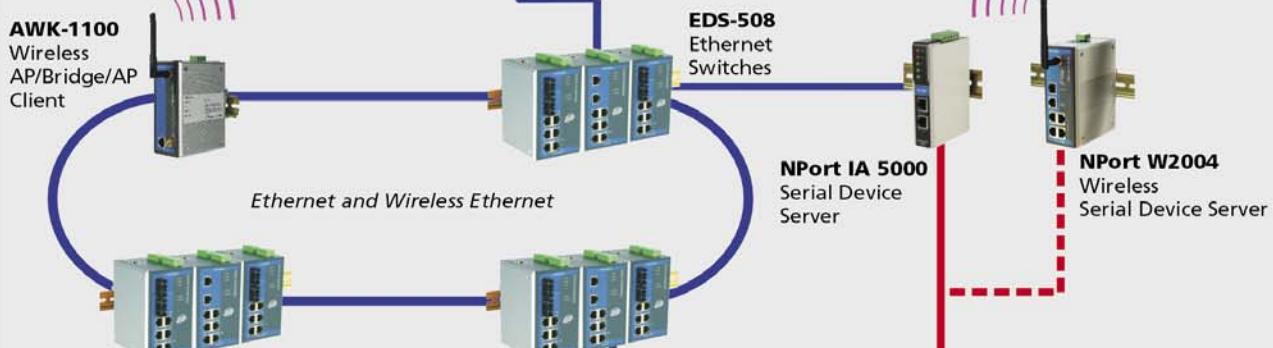
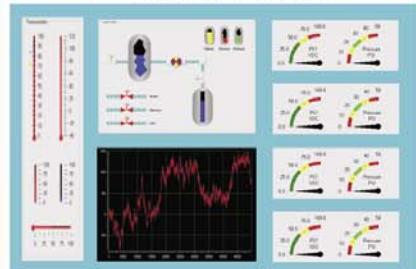
V61

Network I/O Solution for SCADA Systems

MXIO Library for User Programs



SCADA Software



Standard Modbus Protocol

Linux
WinCE

ioLogik 4000
Slice I/O
Server

ioLogik 2000
Stand-alone
I/O Server



Digital I/O

- Actuator
- Relay
- Alarm
- ON/OFF Device
- Open/Close



Analog I/O

- Temperature Sensor
- Transmitter
- Recorder
- Drive/Valve
- Humidity Sensor
- Pressure Sensor





A trusted company that brings you Access to Success™

Moxa is a world-class corporation that designs and produces products for Ethernet I/O Industrial Ethernet communications, Serial-to-Ethernet, and Video Networking. Our many products exhibit the highest quality and reliability, and are used in applications worldwide, including Industrial Automation, Telecommunications, Transportation, Building Automation, and more.

Vision

To be the leading brand of world-class device networking solutions for industrial automation.

Core Competence

- A leading brand in the worldwide Industrial Ethernet market
- Successful integration of hardware (ASIC, to board, to system design) with software (firmware, to driver, to API design)
- More than 18 years of experience dedicated to industrial serial technology
- In-house group of professional researchers with expertise in all facets of network technology.

Friendly & Professional Global Service

- Worldwide service with customer support certification in the U.S., China, and Taiwan
- Convenient on-line service

Proven Quality

- Moxa's software is certified by Windows, Linux, Unix, FreeBSD, Solaris, and QNX. In addition,
- Moxa is the first manufacturer to receive Windows 2000 certification for its multiport communication boards.
 - Moxa's I/O products have received UL508, UL, and CE certification.
 - MOXA patented ADDC™ (Automatic Data Direction Control) makes RS-485 communication programming a snap.
 - State of the art ASIC (Application Specific Integrated Circuit) techniques specially designed for multiport serial communications, greatly reduce the number of traditional ICs and dramatically lowers repair rate.

ISO 9001 Certified

Moxa's commitment to quality is recognized internationally with our ISO 9001: 2000 certification by German auditors with no deficiencies.

Innovation and Awards

Moxa has received prestigious industry awards, including the Control Engineering 2004 Editors' Choice Award, Taiwan Symbol of Excellence Research Award, and Innovation Award, affirming Moxa's position as an industry leader with a reputation for producing innovative, top quality communications products.



More than 18 years in Industrial Device Networking

- Over 7.5 million devices connected to MOXA products, providing Access to Success™ for customers worldwide.
- Global acceptance by many long-term customers, including Agilent, Alcatel, Gateway 2000, HP, IBM, NCR, NTT, Siemens, Toshiba, and TSMC.
- Solid 2-year warranty for I/O products and lifetime service backed by experienced and friendly technical support personnel.
- Worldwide RMA service centers in the United States, China, and Taiwan.



ioLogik 4000 Network I/O Server

Ethernet I/O Solutions for Data Acquisition and Control

Features

- Remotely acquire sensor data and control I/O points via Ethernet, RS-485
- Full range of Digital and Analog I/O modules
- Expandable up to 32 modules for a maximum of 512 DIO points or 128 analog channels
- Modular package for fast swap and maintenance
- Standard Modbus/TCP/RTU/ASCII, and compatible with most SCADA software
- Easy-to-use DLL library for easy user programming



Overview

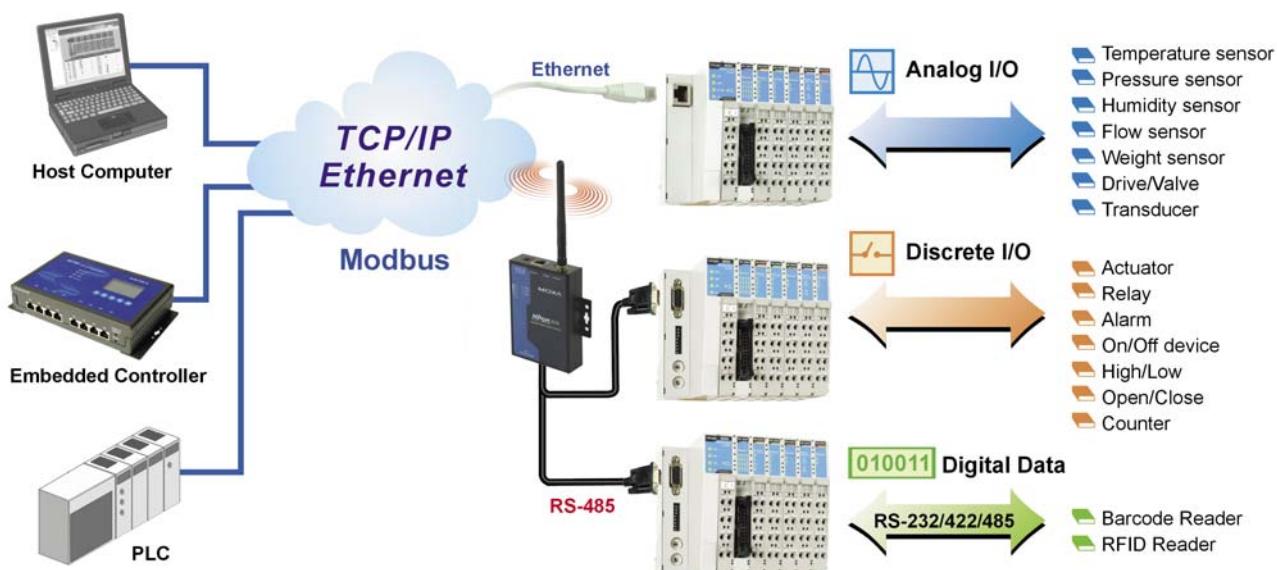
ioLogik 4000 is designed to read sensor data, on/off status, and to control the on/off status of devices via Ethernet or RS-485/232 remotely from a host computer or PLC controller.

Support for the standard Modbus protocol makes ioLogik 4000 compatible with most SCADA software, such as Intellution iFix, Wonderware, and Labview.

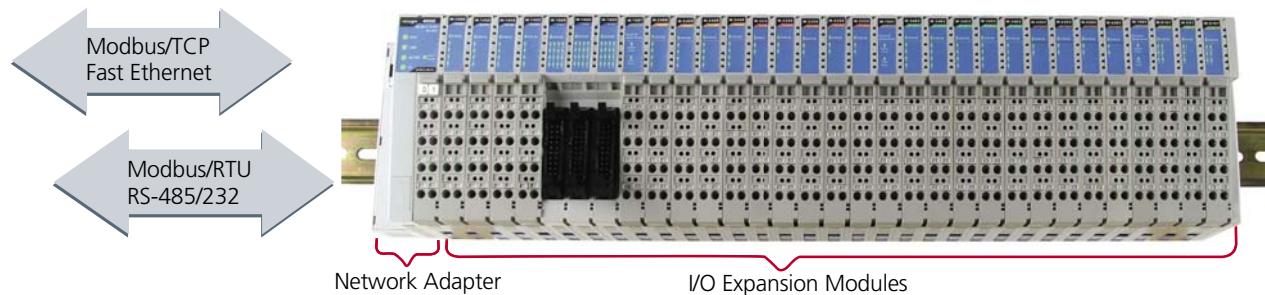
Link the Real World and Digital World

ioLogik Ethernet I/O from Moxa connects a variety of sensors, and electrical, electronic, and mechanical devices—temperature, humidity, and light sensors, pressure transmitters and motors, serial devices, and more—to computers and applications over standard Ethernet networks and the Internet.

ioLogik also provides a traditional RS-485 Remote I/O server that works with existing applications, and with the help of an NPort Wireless Device Server, you may even connect sensors and devices via a Wireless LAN network.



Slice Type I/O Modules for a Full Range of I/O Combinations

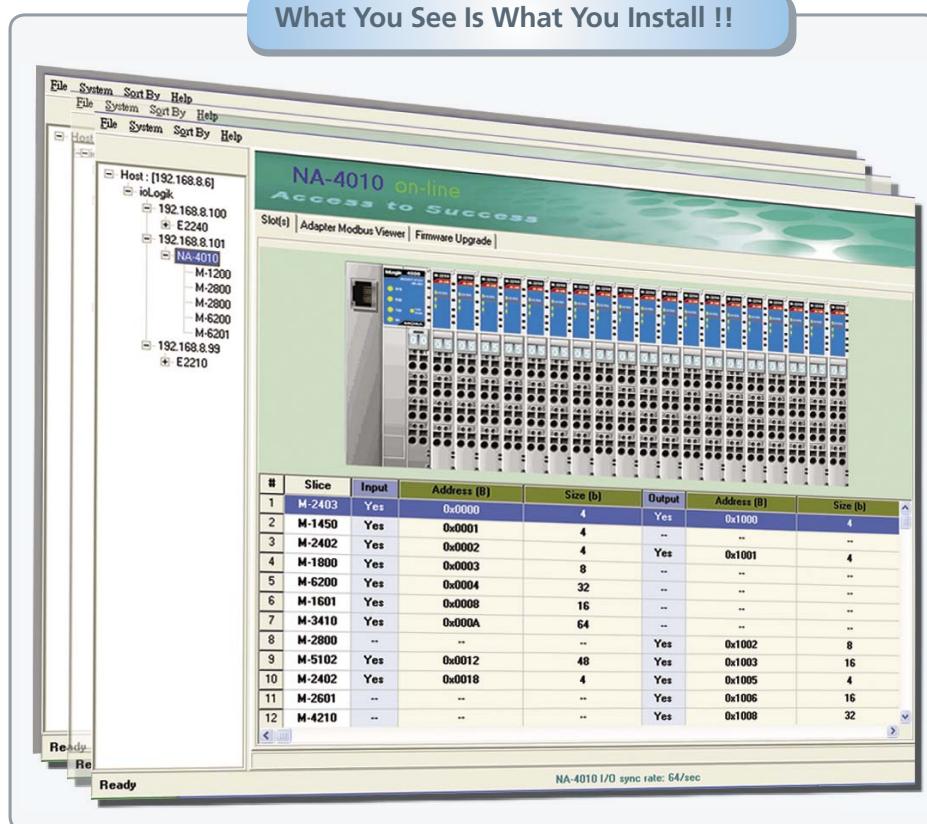


Network Adapter	Digital Input		Digital Output		Analog Input		Analog Output	
Types	Types	Ch.	Types	Ch.	Types	Ch.	Types	Ch.
Ethernet	24 VDC	4, 8, 16	24 VDC	4, 8, 16	0-20 mA	4	0-20 mA	2
RS-485	48 VDC	4	24 VDC w/ Diag	4	4-20 mA	4	4-20 mA	2
RS-232	110 VAC	4	125 VAC	2	0-10V	4	0-10V	2
	230 VAC	4	230 VAC	2	+/-10V	4	+/-10V	2
					0-5V	4	0-5V	2
					RTD	2		
					TC	2		

Easy to use Windows Software Utility

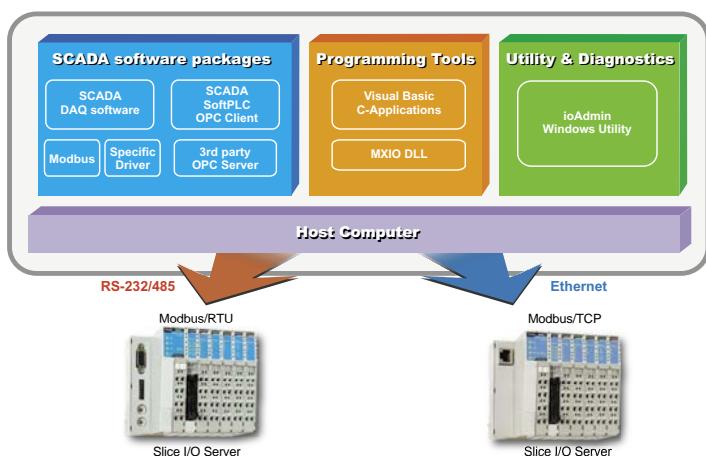
ioAdmin is designed to configure and monitor the slice I/O server remotely. It automatically detects the installed Ethernet I/O server and presents the installation sequence of the I/O expansion modules. ioAdmin also detects and generates a Modbus Address table, which can be printed or stored on a computer for SCADA software configuration.

What You See Is What You Install !!



Versatile Software Support

ioLogik 4000 supports the standard Modbus protocol and is compatible with most SCADA software. In addition, Moxa provides an easy-to-use MXIO DLL library that helps programmers develop application software with Visual Basic or C language under a Windows platform.



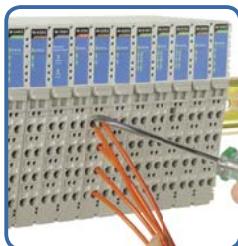
Fast Maintenance

ioLogik 4000 provides sprint type, removable terminal blocks (RTB) that allow you to preserve field wiring before replacing

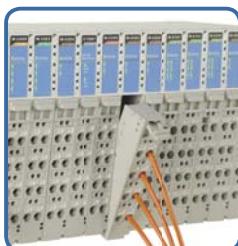
any I/O expansion modules. Each slice of I/O expansion module can be replaced directly in no time.



Slice Type I/O Modules



Removable Terminal Block



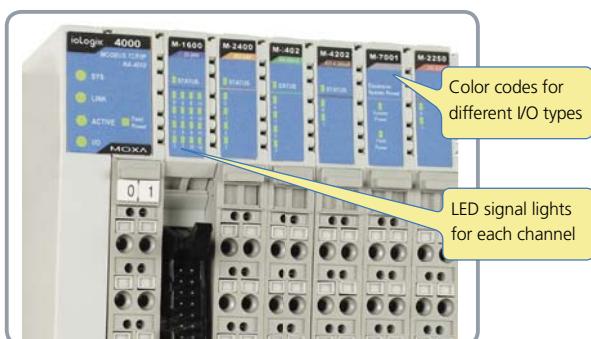
Spring Type Terminal Block



Module Coding Tag

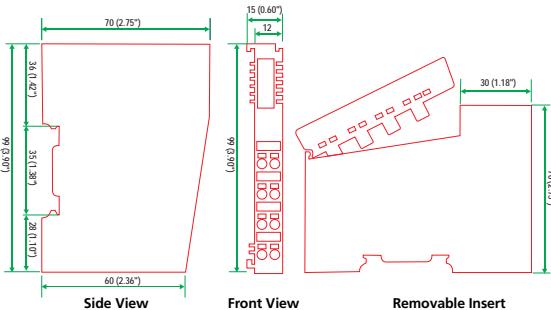
Easy Maintenance

ioLogik 4000 provides LED signal lights for each I/O channel and clearly indicates if the I/O channel is active or has problems. Different types of module are categorized by different colors so that you may identify the type of module directly.

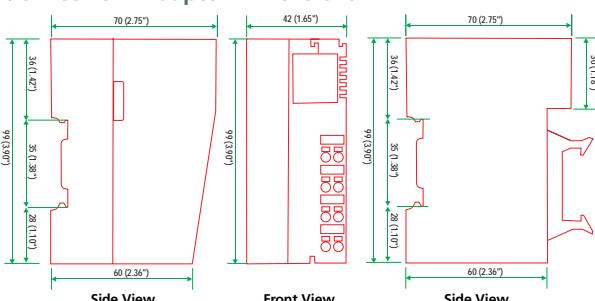


Dimensions

I/O Terminal Dimensions



I/O Network Adaptor Dimensions



Ordering information



Model No.	Network Adapter
NA-4010	Ethernet Network Adapter Modbus/TCP
NA-4020	RS-485 Network Adapter Modbus/RTU
NA-4021	RS-232 Network Adapter Modbus/RTU
Model No.	Digital Input
M-1400	4DI, sink, 24 VDC, RTB
M-1401	4DI, source, 24 VDC, RTB
M-1410	4DI, sink, 48 VDC, RTB
M-1411	4DI, source, 48 VDC, RTB
M-1800	8DI, sink, 24 VDC, RTB
M-1801	8DI, source, 24 VDC, RTB
M-1600	16DI, sink, 24 VDC, RTB
M-1601	16DI, source, 24 VDC, 20-pin
M-1450	4DI, 110 VAC, RTB
M-1451	DI, 220 VAC, RTB
Model No.	Digital Output
M-2400	4DO, sink, MOSFET, 24 VDC, 0.5A, RTB
M-2401	4DO, source, MOSFET, 24 VDC, 0.5A, RTB
M-2800	8DO, sink, MOSFET, 24 VDC, 0.5A, RTB
M-2801	8DO, source, MOSFET, 24 VDC, 0.5A, RTB
M-2600	16DO, sink, MOSFET, 24 VDC, 0.3A, 20-pin
M-2601	16DO, source, MOSFET, 24 VDC, 0.3A, 20-pin
M-2402	4DO, sink, MOSFET, with diagnostics, 24 VDC, 0.5A, RTB
M-2403	4DO, source, MOSFET, with diagnostics, 24 VDC, 0.5A, RTB
M-2404	4DO, sink, MOSFET, with diagnostics, 24 VDC, 2.0A, RTB
M-2405	4DO, source, MOSFET, with diagnostics, 24 VDC, 2.0A, RTB
M-2250	2DO, Relay, 230 VAC, 24 VDC, 2.0A, RTB
M-2254	2DO, Triac, 12-125 VAC, 0.5A, RTB

* RTB: Removable Terminal Block

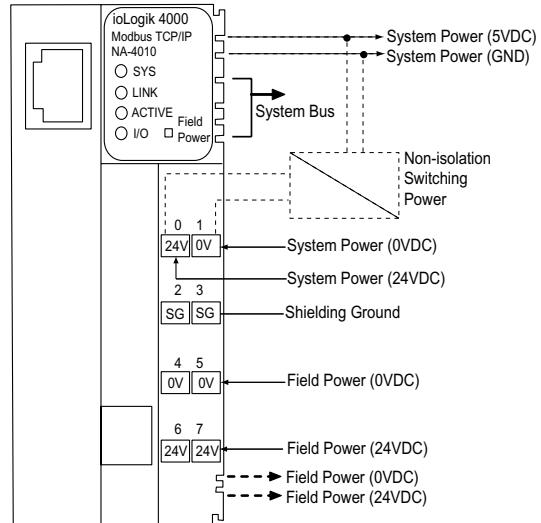
* 20-pin: 20-pin header

Model No.	Analog Input
M-3400	4AI, Current, 0-20 mA, 12-bit, RTB
M-3402	4AI, Current, 4-20 mA, 12-bit, RTB
M-3410	4AI, Voltage, 0-10V, 12-bit, RTB
M-3412	4AI, Voltage, -10-10V, 12-bit, RTB
M-3414	4AI, Voltage, 0-5V, single-ended, 12-bit, RTB
M-3401	4AI, Current, 0-20 mA, 14-bit, RTB
M-3403	4AI, Current, 4-20 mA, 14-bit, RTB
M-3411	4AI, Voltage, 0-10V, 14-bit, RTB
M-3413	4AI, Voltage, -10-10V, 14-bit, RTB
M-3415	4AI, Voltage, 0-5V, single-ended, 14-bit, RTB
M-6200	2AI, RTD: PT100, JPT100 3000 hm, RTB
M-6201	2AI, Thermocouple: 30 mV (1 μ V/bit), RTB
Model No.	Analog Output
M-4201	2AO, 0-20 mA, 12-bit, RTB
M-4202	2AO, 4-20 mA, 12-bit, RTB
M-4210	2AO, Voltage, 0-10V, 12-bit, RTB
M-4211	2AO, Voltage, -10-10V, 12-bit, RTB
M-4212	2AO, Voltage, 0-5V, 12-bit, RT
Model No.	System Modules
M-7001	System expansion power supply, 1.0A (5 VDC)
M-7002	Field power distributor, 10A (24/48 VDC, 110/220 VAC)
M-7803	Potential Distribution, 8ch, Shield signal
M-7804	Potential Distribution, 8ch, 0 VDC
M-7805	Potential Distribution, 8ch, 24 VDC
M-7806	Potential Distribution, 4ch/24 VDC, 4ch/0 VDC
Accessories	
M-8001-PK	Removable terminal block, 9 pcs per pack
M-8003	Marker with 0-9 numbering, white color, 100 pcs
M-8004	Blank marker, 100 pcs



Network Adapter Modules

NA-4010 Ethernet Network Adapter



Specifications

Network

Ethernet: 10/100 Mbps, RJ45

Software Features

Protocols: Modbus/TCP, HTTP, Bootp

IP settings: ARP, Bootp, static IP

Utility: ioAdmin

Programming library: MXIO DLL library for Windows supporting Visual Basic, Visual C++, Borland C++ Builder

Max. I/O modules: Up to 32 I/O expansion modules

System Power

Power input: 11-28.8 VDC, 24Vdc typical

Power consumption: 60 mA typical @ 24 VDC

Current for I/O modules: Max. 1.5A @ 5 VDC

Field power

Rated voltage: 11-28.8 VDC, 24 VDC typical

Current in field power contact: Max. 10A

Protection

System power to I/O driver: 2 k Vrms optical isolation

Environmental

Operating Temperature: -20 to 60°C, 5 to 90%RH

Storage Temperature: -45 to 85°C

Vibration: IEC-68-2-6, 2G in operation

Agency Approval

EMC: CE EN-55082, EN-55081

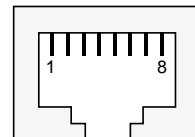
Safety: UL 508

Weight

Net weight: 150 g

Pin Assignment

Ethernet Port

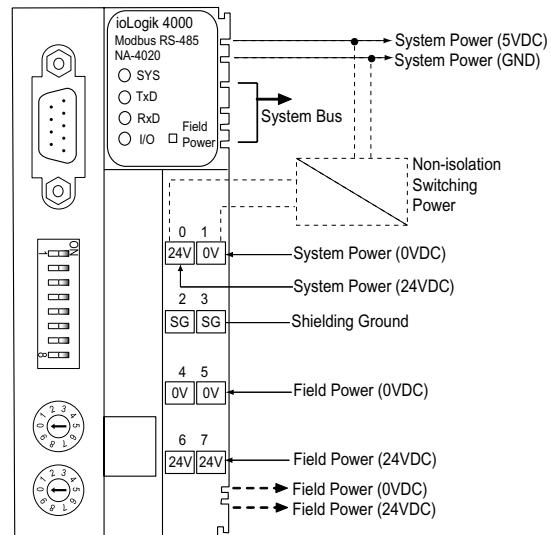


PIN	Signals
1	TX-
2	TX-
3	RX+
4	---
5	---
6	Rx-
7	---
8	---

PIN	Signals
5	---
6	Rx-
7	---
8	---

NA-4020 RS-485 Network Adapter

NA-4021 RS-232 Network Adapter



Specifications

Serial Communication

Baud rate: 1200 to 15200 bps

Data bit: 7, 8

Parity bit: None, Even, Odd

Stop bit: 1, 2

Signal: NA-4020: Data+, Data-, Gnd, DIR
NA-4021: TxD, RxD, Gnd

Software Features

Protocols: Modbus/RTU, Modbus/ASCII

Modbus Address: 00 – 99 by rotary switches

Utility: ioAdmin

Programming library: MXIO DLL library for Windows supporting Visual Basic, Visual C++, Borland C++ Builder

Max. I/O modules: Up to 32 I/O expansion modules

System Power

Power input: 11-28.8 VDC, 24 VDC typical

Power consumption: 70 mA typical @ 24 VDC

Current for I/O modules: Max. 1.5A @ 5 VDC

Field power

Rated voltage: 11-28.8 VDC, 24 VDC typical

Current in field power contact: Max. 10A

Protection

System power to I/O driver: 2 k Vrms optical isolation

Environmental

Operating Temperature: -20 to 60°C, 5 to 90%RH

Storage Temperature: -45 to 85°C

Vibration: IEC-68-2-6, 2G in operation

Agency Approval

EMC: CE EN-55082, EN-55081

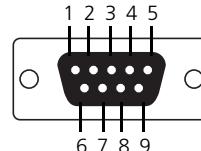
Safety: UL 508

Weight

Net weight: 150 g

Pin Assignment

DB9 Female



NA-4020

PIN	Signals
1	---
2	---
3	Data+
4	Direction (Output)
5	GND
6	---
7	---
8	Data-

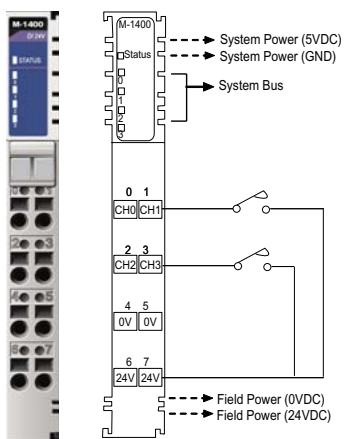
NA-4021

PIN	Signals
1	---
2	TxD
3	RxD
4	---
5	GND
6	---
7	---
8	---



Digital Input Modules

4/8-channel 24/48 VDC Digital Input Modules



M-1400 4 Digital inputs, sink, 24 VDC

Input Specifications

Inputs per module: 4 points, sink type

On-state voltage : 24 VDC nominal, Min.11 VDC to Max. 28.8 VDC

Min. Off-state voltage: Max. 5 VDC

On-state current: Max. 6 mA / point @ 28.8 VDC

Input impedance: Typ. 5.1 Kohm

Filtering time: Typ. 1.5 ms

Common type: 4 points/2 COM

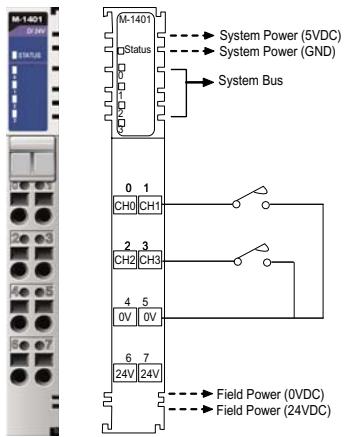
General Specifications

Power dissipation: Max. 35 mA @ 5 VDC

Isolation: I/O to logic: 2 k Vrms optical isolation

Field power: Supply voltage: 24 VDC nominal

Wiring: I/O cable max. AWG14



M-1401 4 Digital inputs, source, 24 VDC

Input Specifications

Inputs per module: 4 points, source type

On-state voltage : 24 VDC nominal, Min.11 VDC to Max. 28.8 VDC

Min. Off-state voltage: Max. 5 VDC

On-state current: Max. 6 mA / point @ 28.8 VDC

Input impedance: Typ. 5.1 Kohm

Filtering time: Typ. 1.5ms

Common type: 4 points/2 COM

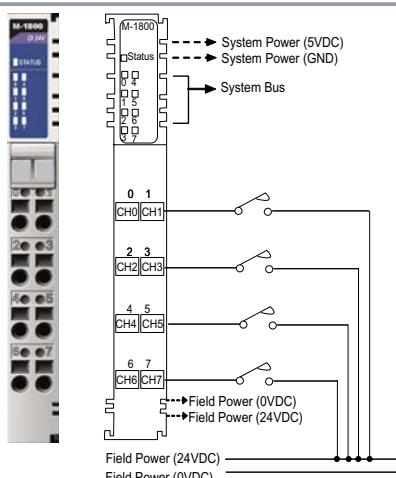
General Specifications

Power dissipation: Max. 35 mA @ 5 VDC

Isolation: I/O to logic: 2 k Vrms optical isolation

Field power: Supply voltage: 24 VDC nominal

Wiring: I/O cable max. AWG14



M-1800 8 Digital inputs, sink, 24 VDC

Input Specifications

Inputs per module: 8 points, sink type

On-state voltage : 24 VDC nominal, Min.11 VDC to Max. 28.8 VDC

Min. Off-state voltage: Max. 5 VDC

On-state current: Max. 6 mA / point @ 28.8 VDC

Input impedance: Typ. 5.1 Kohm

Filtering time: Typ. 1.5ms

Common type: External common

General Specifications

Power dissipation: Max. 35 mA @ 5 VDC

Isolation: I/O to logic: 2 k Vrms optical isolation

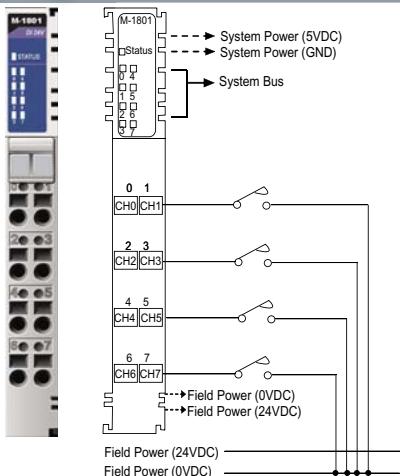
Field power: Supply voltage: 24 VDC nominal

Wiring: I/O cable max. AWG14



Digital Input Modules

4/8-channel 24/48 VDC Digital Input Modules



M-1801 8 Digital inputs, source, 24 VDC

Input Specifications

Inputs per module: 8 points, source type

On-state voltage : 24 VDC nominal, Min. 11 VDC to Max. 28.8 VDC

Min. Off-state voltage: Max. 5 VDC

On-state current: Max. 6 mA / point @ 28.8 VDC

Input impedance: Typ. 5.1 Kohm

Filtering time: Typ 1.5 ms

Common type: External common

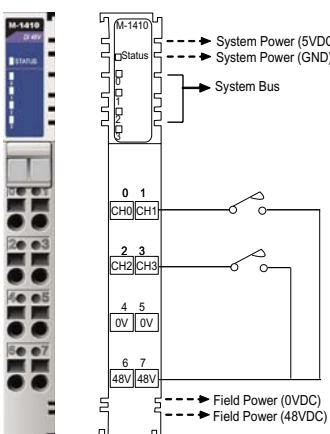
General Specifications

Power dissipation: Max. 35 mA @ 5 VDC

Isolation: I/O to logic: 2 k Vrms optical isolation

Field power: Supply voltage: 24 VDC nominal

Wiring: I/O cable max. AWG14



M-1410 4 Digital inputs, sink, 48 VDC

Input Specifications

Inputs per module: 4 points, sink type

On-state voltage : 48 VDC nominal, Min. 34 VDC to Max. 60 VDC

Min. Off-state voltage: Max. 10 VDC

On-state current: Max. 4 mA / point @ 48 VDC

Input impedance: Typ. 12 Kohm

Common type: 4 points/2 COM

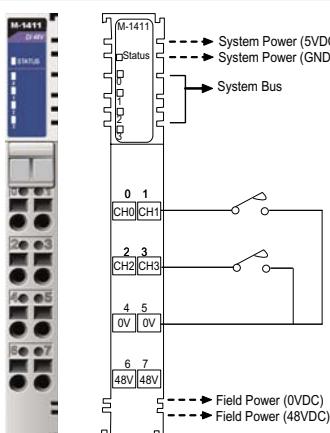
General Specifications

Power dissipation: Max. 35 mA @ 5 VDC

Isolation: I/O to logic: 2 k Vrms optical isolation

Field power: Supply voltage: 48 VDC nominal

Wiring: I/O cable max. AWG14



M-1411 4 Digital inputs, source, 48 VDC

Input Specifications

Inputs per module: 4 points, source type

On-state voltage : 48 VDC nominal, Min. 34 VDC to Max. 60 VDC

Min. Off-state voltage: Max. 10 VDC

On-state current: Max. 4 mA / point @ 48 VDC

Input impedance: Typ. 12 Kohm

Common type: 4 points/2 COM

General Specifications

Power dissipation: Max. 35 mA @ 5 VDC

Isolation: I/O to logic: 2 k Vrms optical isolation

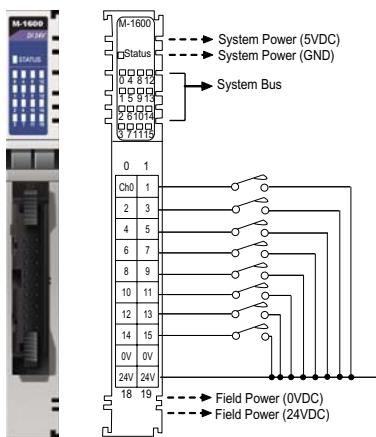
Field power: Supply voltage: 48 VDC nominal

Wiring: I/O cable max. AWG14



Digital Input Modules

16-channel 24 VDC Digital Input Modules



M-1600 16 Digital inputs, sink, 24 VDC

Input Specifications

Inputs per module: 16 points, sink type

On-state voltage: 24 VDC nominal, Min.11 VDC to Max. 28.8 VDC

Min. Off-state voltage: Max. 5 VDC

On-state current: Max. 6 mA / point @ 28.8 VDC

Input impedance: Typ. 5.1 Kohm

Filtering time: Typ. 1.5 ms

Common type: 16 points/2 COM

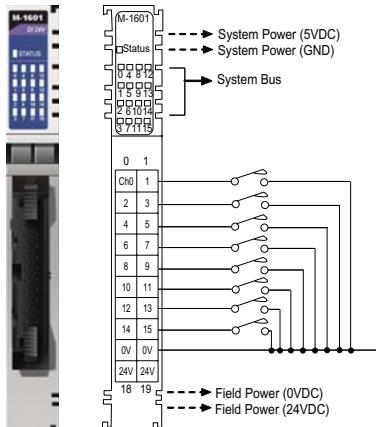
General Specifications

Power dissipation: Max. 40 mA @ 5 VDC

Isolation: I/O to logic: 2 k Vrms optical isolation

Field power: Supply voltage: 24 VDC nominal

Wiring: I/O cable max. AWG14



M-1601 16 Digital inputs, source, 24 VDC

Input Specifications

Inputs per module: 16 points, source type

On-state voltage: 24 VDC nominal, Min.11 VDC to Max. 28.8 VDC

Min. Off-state voltage: Max. 5 VDC

On-state current: Max. 6 mA / point @ 28.8 VDC

Input impedance: Typ. 5.1 Kohm

Filtering time: Typ. 1.5 ms

Common type: 16 points/2 COM

General Specifications

Power dissipation: Max. 40 mA @ 5 VDC

Isolation: I/O to logic: 2 k Vrms optical isolation

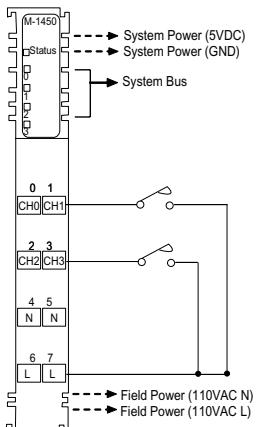
Field power: Supply voltage: 24 VDC nominal

Wiring: I/O cable max. AWG14



Digital Input Modules

4-channel 110V/240 VAC Digital Input Modules



* Field Power distributor required.

M-1450 4 Digital inputs, 110 VAC

Input Specifications

Inputs per module: 4 points

On-state voltage: 120 VAC nominal, Min. 85 VAC to Max. 132 VAC

Min. Off-state voltage: Max. 45 VAC

On-state current: Max. 8 mA / point @ 132 VAC

Input impedance: Typ. 11 Kohm

Common type: 4 points/2 COM (single common)

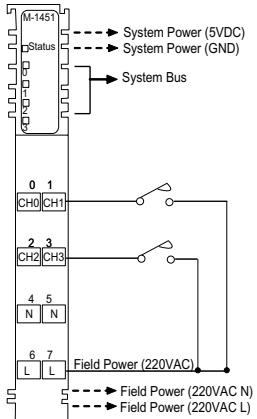
General Specifications

Power dissipation: Max. 35 mA @ 5 VDC

Isolation: I/O to logic: 2 k Vrms optical isolation

Field power: Supply voltage: 24 VDC nominal

Wiring: I/O cable max. AWG14



* Field Power distributor required.

M-1451 4 Digital inputs, 240 VAC

Input Specifications

Inputs per module: 4 points

On-state voltage: 240 VAC nominal, Min.170 VAC to Max. 264 VAC

Min. Off-state voltage: Max. 45 VAC

On-state current: Max. 12 mA / point @ 264 VAC

Input impedance: Typ. 22 Kohm

Common type: 4 points/2 COM (single common)

General Specifications

Power dissipation: Max. 35 mA @ 5 VDC

Isolation: I/O to logic: 2 k Vrms optical isolation

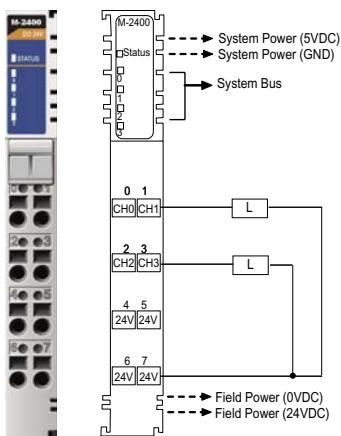
Field power: Supply voltage: 24 VDC nominal

Wiring: I/O cable max. AWG14



Digital Output Modules

4/8-channel 24 VDC Digital Output Modules



M-2400 4 Digital outputs, sink, 24 VDC, 0.5A

Output Specifications

Outputs per module: 4 points, sink type

On-state voltage : 24 VDC nominal, Min. 11 VDC to Max. 28.8 VDC

Operating frequency: DC to 50 KHz

On-state voltage drop: Max. 0.3 VDC@25°C

On-state current: Min. 1 mA per channel

Off leakage current: Max. 50 µA

Output current rating: Max. 0.5A per channel

Max. 2A per common

Protection: Over temperature shutdown: Typ. 175°C

Over current limit: 6.5A per 1/2/4 channels

Short circuit protection: 6.5A per 4 channels

ESD protection for output pin: 16.5 KV

Surge current: 1A for 10 ms, repeatable every 3 seconds

Common type: 4 points /4 COM (single common)

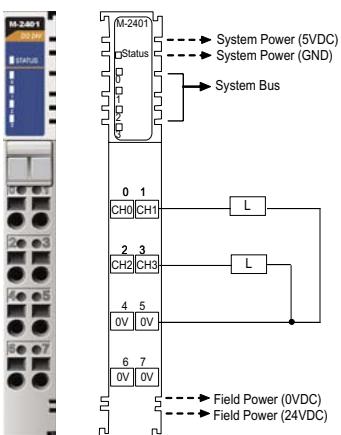
General Specifications

Power dissipation: Max. 45 mA @ 5 VDC

Isolation: I/O to logic: 2 k Vrms optical isolation

Field power: Supply voltage: 24 VDC nominal

Wiring: I/O cable max. AWG14



M-2401 4 Digital outputs, source, 24 VDC, 0.5A

Output Specifications

Outputs per module: 4 points, source type

On-state voltage : 24 VDC nominal, Min. 11 VDC to Max. 28.8 VDC

Operating frequency: DC to 50 KHz

On-state voltage drop: Max. 0.3 VDC@25°C

On-state current: Min. 1 mA per channel

Off leakage current: Max. 50 µA

Output current rating: Max. 0.5A per channel

Max. 2A per common

Protection: Over temperature shutdown: Typ. 175°C

Over current limit: 6.5A per 1/2/4 channels

Short circuit protection: 6.5A per 4 channels

ESD protection for output pin: 16.5 KV

Surge current: 1A for 10 ms, repeatable every 3 seconds

Common type: 4 points/4 COM (single common)

General Specifications

Power dissipation: Max. 45 mA @ 5 VDC

Isolation: I/O to logic: 2 k Vrms optical isolation

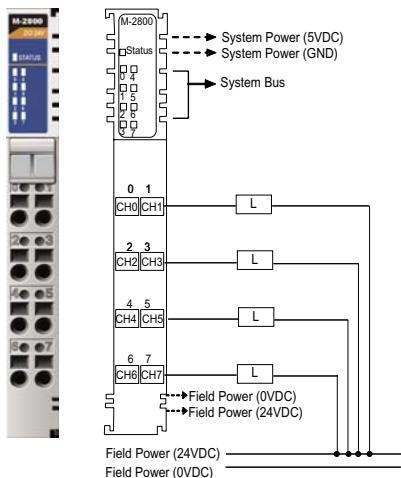
Field power: Supply voltage: 24 VDC nominal

Wiring: I/O cable max. AWG14



Digital Output Modules

4/8-channel 24 VDC Digital Output Modules



M-2800 8 Digital outputs, sink, 24 VDC, 0.5A

Output Specifications

Outputs per module: 8 points, sink type

On-state voltage : 24 VDC nominal, Min.11 VDC to Max.28.8 VDC

Operating frequency: DC to 50 KHz

On-state voltage drop: Max. 0.3 VDC@25°C

On-state current: Min. 1 mA per channel

Off leakage current: Max. 50 µA

Output current rating: Max. 0.5A per channel
Max. 4A per common

Protection: Over temperature shutdown: Typ. 175°C

Over current limit: 1.7A

ESD protection for output pin: 16.5 KV

Surge current: 1A for 10 ms, repeatable every 3 seconds

Common type: 8 points/External common (single common)

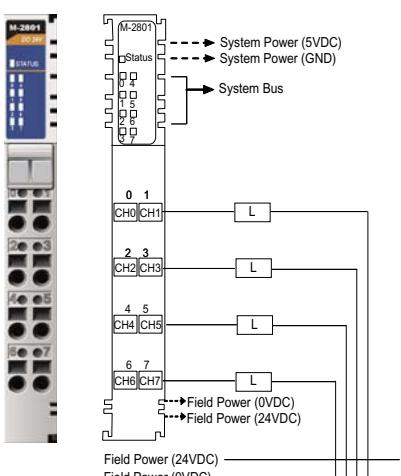
General Specifications

Power dissipation: Max. 60 mA @ 5 VDC

Isolation: I/O to logic: 2 k Vrms optical isolation

Field power: Supply voltage: 24 VDC nominal

Wiring: I/O cable max. AWG14



M-2801 8 Digital outputs, source, 24 VDC, 0.5A

Output Specifications

Outputs per module: 8 points, source type

On-state voltage : 24 VDC nominal, Min. 11 VDC to Max. 28.8 VDC

Operating frequency: DC to 50 KHz

On-state voltage drop: Max. 0.3 VDC@25°C

On-state current: Min. 1 mA per channel

Off leakage current: Max. 50 µA

Output current rating: Max. 0.5A per channel
Max. 4A per common

Protection: Over temperature shutdown: Typ. 175°C

Over current limit: 1.7A

ESD protection for output pin: 16.5 KV

Surge current: 1A for 10 ms, repeatable every 3 seconds

Common type: 8 points/External common (single common)

General Specifications

Power dissipation: Max. 60 mA @ 5 VDC

Isolation: I/O to logic: 2 k Vrms optical isolation

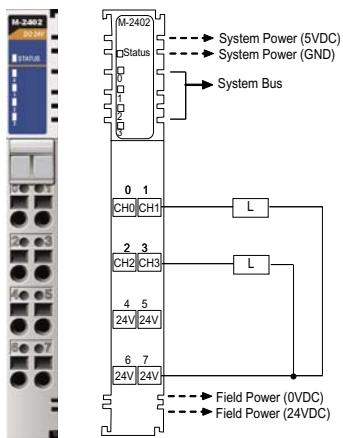
Field power: Supply voltage: 24 VDC nominal

Wiring: I/O cable max. AWG14



Digital Output Modules

4-channel Digital Output Modules with Self-Diagnostics



M-2402 4 Digital outputs, self-diagnostics, sink, 24 VDC, 0.5A

Output Specifications

Outputs per module: 4 points, sink type

On-state voltage : 24 VDC nominal, Min. 11 VDC to Max. 28.8 VDC

Operating frequency: DC to 50 KHz

On-state voltage drop: Max. 0.3 VDC @25°C

On-state current: Min. 1 mA per channel

Off leakage current: Max. 50 µA

Output current rating: Max. 0.5A per channel

Max. 2A per common

Protection: Over temperature shutdown: Typ. 175°C

Over current limit: 6.5A per 1/2/4 channels

Short circuit protection: 6.5A per 4 channels

ESD protection for output pin: 16.5 KV

Surge current: 1A for 10 ms, repeatable every 3 seconds

Common type: 4 points/4 COM (single common)

Self diagnostics: Yes

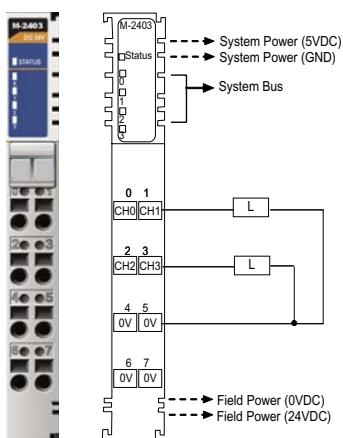
General Specifications

Power dissipation: Max. 45 mA @ 5 VDC

Isolation: I/O to logic: 2 k Vrms optical isolation

Field power: Supply voltage: 24 VDC nominal

Wiring: I/O cable max. AWG14



M-2403 4 Digital outputs, self-diagnostics, source, 24 VDC, 0.5A

Output Specifications

Outputs per module: 4 points, source type

On-state voltage : 24 VDC nominal, Min. 11 VDC to Max. 28.8 VDC

Operating frequency: DC to 50 KHz

On-state voltage drop: Max. 0.3 VDC @25°C

On-state current: Min. 1 mA per channel

Off leakage current: Max. 50 µA

Output current rating: Max. 0.5A per channel

Max. 2A per common

Protection: Over temperature shutdown: Typ. 175°C

Over current limit: 6.5A per 1/2/4 channels

Short circuit protection: 6.5A per 4 channels

ESD protection for output pin: 16.5 KV

Surge current: 1A for 10 ms, repeatable every 3 seconds

Common type: 4 points /4 COM (single common)

Self diagnostics: Yes

General Specifications

Power dissipation: Max. 45 mA @ 5 VDC

Isolation: I/O to logic: 2 k Vrms optical isolation

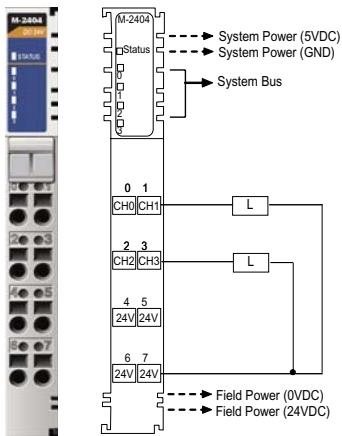
Field power: Supply voltage: 24 VDC nominal

Wiring: I/O cable max. AWG14



Digital Output Modules

4-channel Digital Output Modules with Self-Diagnostics



M-2404 4 Digital Output, self-diagnostics, sink, 24 VDC, 2A

Output Specifications

Outputs per module: 4 points, sink type

On-state voltage : 24 VDC nominal, Min. 11 VDC to Max. 28.8 VDC

Operating frequency: DC to 50 KHz

On-state voltage drop: Max. 0.3 VDC @25°C

On-state current: Min. 1 mA per channel

Off leakage current: Max. 50 µA

Output current rating: Max. 2A per channel
Max. 8A per common

Protection: Over temperature shutdown: Typ. 175°C

Over current limit: 6.5A

Short circuit protection: 6.5A per 4 channels

ESD protection for output pin: 16.5 KV

Surge current: 1A for 10 ms, repeatable every 3 seconds

Common type: 4 points/4 COM (single common)

Self diagnostics: Yes

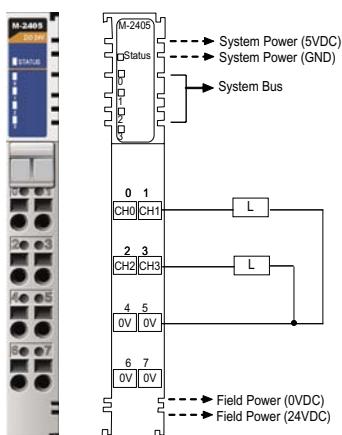
General Specifications

Power dissipation: Max. 45 mA @ 5 VDC

Isolation: I/O to logic: 2 k Vrms optical isolation

Field power: Supply voltage: 24 VDC nominal

Wiring: I/O cable max. AWG14



M-2405 4 Digital outputs, self-diagnostics, source, 24 VDC, 2A

Output Specifications

Outputs per module: 4 points, source type

On-state voltage : 24 VDC nominal, Min. 11 VDC to Max. 28.8 VDC

Operating frequency: DC to 50 KHz

On-state voltage drop: Max. 0.3 VDC @25°C

On-state current: Min. 1 mA per channel

Off leakage current: Max. 50 µA

Output current rating: Max. 2A per channel
Max. 8A per common

Protection: Over temperature shutdown: Typ. 175°C

Over current limit: 6.5A

Short circuit protection: 6.5A per 4 channels

ESD protection for output pin: 16.5 KV

Surge current: 1A for 10 ms, repeatable every 3 seconds

Common type: 4 points/4 COM (single common)

Self diagnostics: Yes

General Specifications

Power dissipation: Max. 45 mA @ 5 VDC

Isolation: I/O to logic: 2 k Vrms optical isolation

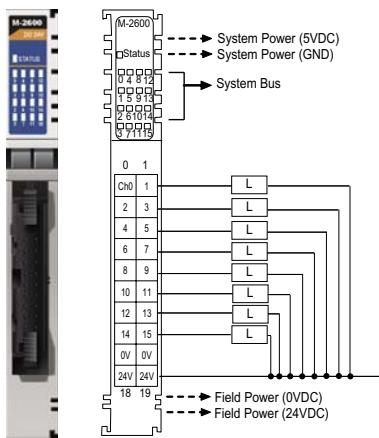
Field power: Supply voltage: 24 VDC nominal

Wiring: I/O cable max. AWG14



Digital Output Modules

16-channel Digital Output Modules



M-2600 16 Digital outputs, sink, 24 VDC, 0.3A

Output Specifications

Outputs per module: 16 points, sink type

On-state voltage : 24 VDC nominal, Min. 11 VDC to Max. 28.8 VDC

Operating frequency: DC to 50 KHz

On-state voltage drop: Max. 0.3 VDC@25°C

On-state current: Min. 1 mA per channel

Off leakage current: Max. 50 µA

Output current rating: Max. 0.3A per channel
Max. 4A per common

Protection: Over temperature shutdown: Typ. 175°C

Over current protection: one time electrical fuse
(125 VDC/6.3A)

Common type: 16 points / 2 COM (single common)

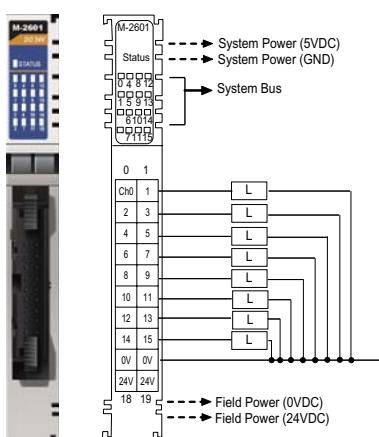
General Specifications

Power dissipation: Max. 80 mA @ 5 VDC

Isolation: I/O to logic: optical isolation, 500 VAC/min, terminal to FG

Field power: Supply voltage: 24 VDC nominal

Wiring: Pin header, external relay board required



M-2601 16 Digital outputs, source, 24 VDC, 0.3A

Output Specifications

Outputs per module: 16 points, source type

On-state voltage : 24 VDC nominal, Min. 11 VDC to Max. 28.8 VDC

Operating frequency: DC to 50 KHz

On-state voltage drop: Max. 0.3 VDC@25°C

On-state current: Min. 1 mA per channel

Off leakage current: Max. 50 µA

Output current rating: Max. 0.3A per channel
Max. 4A per common

Protection: Over temperature shutdown: Typ. 175°C

Over current protection: one time electrical fuse
(125 VDC/6.3A)

Common type: 16 points / 2 COM (single common)

General Specifications

Power dissipation: Max. 80 mA @ 5 VDC

Isolation: I/O to logic: optical isolation, 500 VAC/min, terminal to FG

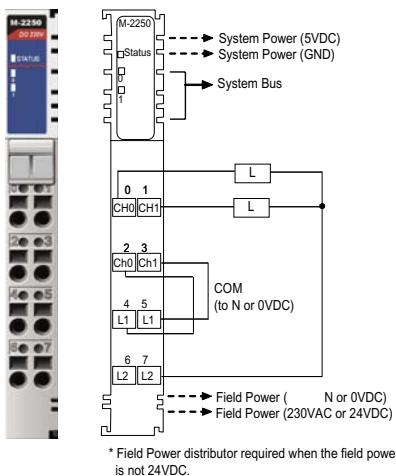
Field power: Supply voltage: 24 VDC nominal

Wiring: Pin header, external relay board required



Digital Output Modules

2-channel Relay Output Module



M-2250 2 Digital outputs, relay , 24 VDC/230 VAC, 2A

Output Specifications

Outputs per module: 2 points, relay

Relay type: Form A, Normally Open (N.O.)

Single pole, single throw (SPST)

Output voltage range: Load dependent

5 to 28.8 VDC @ 2A resistive

48 VDC @ 0.8A resistive

110 VDC @ 0.3A resistive

250 VDC @ 2A resistive

Output current rating: at rated power

2A @ 5 to 28.8 VDC

0.8A @ 48 VDC

0.5A @ 110 VDC

2A @ 250 VAC

Min. Load: 100 μ A, 100 m VDC per point

Max. on-state voltage drop: 0.5V @ 2A, resistive load, 24 VDC

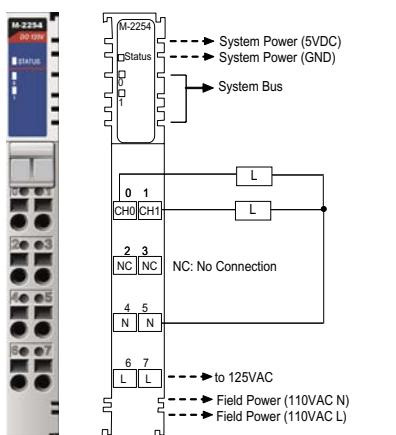
Off-state leakage current: Max. 1.5 mA

Common type: 1 point/1 COM

General Specifications

Power dissipation: Max. 65 mA @ 5 VDC

Wiring: I/O cable Max. AWG14



M-2254 2 Digital outputs, Triac, 12-125 VAC, 0.5A

Output Specifications

Outputs per module: 2 points

Switch type: Zero crossing

Rated load voltage: 15 to 132 VAC

Output current rating: 0.05 to 0.5A

Frequency range: 47 to 63 Hz

Surge current: 40A (16 ms) /4A (30S)

On-state voltage drop: 1.3 Vrms (Max. load)

Off-state leakage current: Max. 1.5 mA

Common type: 2 points / 2 COM

General Specifications

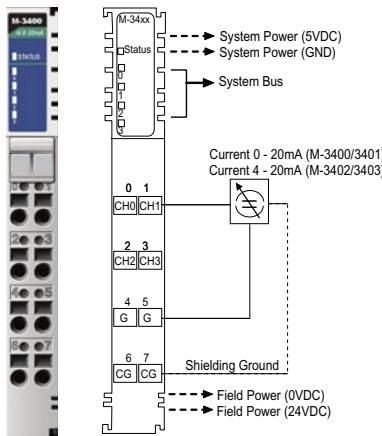
Power dissipation: Max. 35 mA @ 5 VDC

Wiring: I/O cable Max. AWG14



Analog Input Modules

General Resolution



M-3400 4 Analog input, 0-20 mA, 12-bit **M-3402 4 Analog input, 4-20 mA, 12-bit**

Input Specifications

Resolution in ranges: 12 bits, 4.88 μ A/bit (M-3400)
12 bits, 3.91 μ A/bit (M-3402)

Input current range: 0 to 20 mA (M-3400)
4 to 20 mA (M-3402)

Data format: 16-bit integer (2's complement)

Accuracy: +/- 0.1%, FSR @ 25°C
+/- 0.3%, FSR @ 0°C, 60°C

Input impedance: 120 ohm

Conversion time: 4 msec. / all channels

General Specifications

Power dissipation: Max. 150 mA @ 5 VDC

Isolation: I/O to logic: 1k VDC galvanic isolation

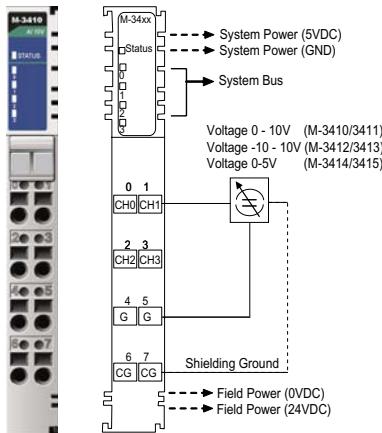
Wiring: I/O cable max. AWG14

Conversion Table (M-3400)

Current	0 mA	5 mA	10 mA	20 mA
Data (Hex)	H0000	H03FF	H07FF	H0FFF

Conversion Table (M-3402)

Current	4 mA	5 mA	10 mA	20 mA
Data (Hex)	H0000	H00FF	H05FF	H0FFF



M-3410 4 Analog inputs, 0-10V, 12-bit **M-3412 4 Analog inputs, -10-10V, 12-bit** **M-3414 4 Analog inputs, 0-5V, 12-bit**

Input Specification

Resolution in ranges: 12 bits, 2.44 mV/bit (M-3410)
12 bits, 4.88 mV/bit (M-3412)
12 bits, 1.22 mV/bit (M-3414)

Input current range: 0 to 10 VDC (M-3410)
-10 to 10 VDC (M-3412)
0 to 5 VDC (M-3414)

Data format: 16-bit integer (2's complement)

Accuracy: +/- 0.1%, FSR @ 25°C
+/- 0.3%, FSR @ 0°C, 60°C

Input impedance: 500 Kohm

Conversion time: 4 msec. / all channels

General Specifications

Power dissipation: Max. 150 mA @ 5 VDC

Isolation: I/O to logic: 1k VDC galvanic isolation

Wiring: I/O cable max. AWG14

Conversion Table (M-3410)

Voltage	0V	2V	5V	10V
Data (Hex)	H0000	H0333	H07FF	H0FFF

Conversion Table (M-3412)

Voltage	-10V	-5V	0V	5V	10V
Data (Hex)	HF800	HFC00	H0000	H3FFF	H07FF

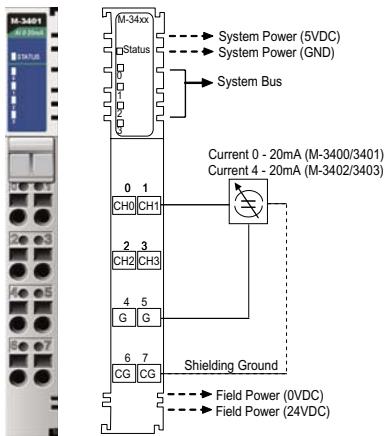
Conversion Table (M-3414)

Voltage	0V	2V	4V	5V
Data (Hex)	H0000	H0666	H0CCC	H0FFF



Analog Input Modules

High Resolution



M-3401 4 Analog inputs, 0-20 mA, 14-bit

M-3403 4 Analog inputs, 4-20 mA, 14-bit

Input Specifications

Resolution in ranges: 14 bits, 1.22 μ A/bit (M-3401)
14 bits, 0.98 μ A/bit (M-3403)

Input current range: 0 to 20 mA (M-3401)
4-20 mA (M-3403)

Data format: 16-bit integer (2's complement)

Accuracy: +/- 0.1%, FSR @ 25°C
+/- 0.3%, FSR @ 0°C, 60°C

Input impedance: 120 ohm

Conversion time: 4 msec. / all channels

General Specifications

Power dissipation: Max. 150 mA @ 5 VDC

Isolation: I/O to logic: 1k VDC galvanic isolation

Wiring: I/O cable max. AWG14

Conversion Table (M-3401)

Current	0 mA	5 mA	10 mA	20 mA
Data (Hex)	H0000	H0FFF	H1FFF	H3FFF

Conversion Table (M-3403)

Current	4 mA	5 mA	10 mA	20 mA
Data (Hex)	H0000	H03FF	H17FF	H3FFF

M-3411 4 Analog inputs, 0-10V, 14-bit

M-3413 4 Analog inputs, -10-10V, 14-bit

M-3415 4 Analog inputs, 0-5V, 14-bit

Input Specifications

Resolution in ranges: 14 bits, 0.61 mV/bit (M-3411)
14 bits, 1.22 mV/bit (M-3413)
14 bits, 0.31 mV/bit (M-3415)

Input current range: 0 to 10 VDC (M-3411)
-10 to 10 VDC (M-3413)
0 to 5 VDC (M-3415)

Data format: 16-bit integer (2's complement)

Accuracy: +/- 0.1%, FSR @ 25°C
+/- 0.3%, FSR @ 0°C, 60°C

Input impedance: 500 ohm

Conversion time: 4 msec. / all channels

General Specifications

Power dissipation: Max. 150 mA @ 5 VDC

Isolation: I/O to logic: 1k VDC galvanic isolation

Wiring: I/O cable max. AWG14

Conversion Table (M-3411)

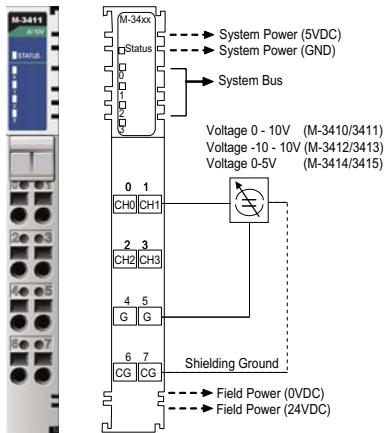
Voltage	0V	2V	5V	10V
Data (Hex)	H0000	H0CCC	H1FFF	H3FFF

Conversion Table (M-3413)

Voltage	-10V	-5V	0V	5V	10V
Data (Hex)	HE000	HF000	H0000	H0FFF	H1FFF

Conversion Table (M-3415)

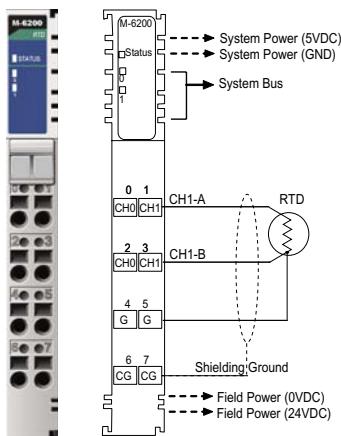
Voltage	0V	2V	4V	5V
Data (Hex)	H0000	H1999	H3332	H3FFF





Analog Input Modules

Temperature sensing



M-6200 2 Analog inputs, RTD: PT100, JPT100

Input Specifications

Sensor types: PT50, PT100, PT200, PT500, PT1000, JPT100, JPT200, JPT500, JPT1000, NI100, NI200, NI500, NI1000, NI120, CU10, Resistance 100 mohm/bit, Resistance 10 mohm/bit, Resistance 20 mohm/bit

Data format: 16-bit integer (2's complement)

Resolution: 0.1°C / 10 mohm

Accuracy: +/- 0.1%, FSR @ 25°C
+/- 0.3%, FSR @ 0°C, 60°C

Input impedance: 500 Kohm

Conversion time: 200 msec. / all channels

Diagnostics: Range over (if range over, data=Dx8000)

General Specifications

Power dissipation: Max. 80 mA @ 5VDC

Isolation: I/O to logic: 1k VDC galvanic isolation

Wiring: I/O cable max. AWG14

Conversion Table

Sensor PT100

Temp.	-200 °C	-100 °C	0 °C	200°C	400°C	640°C
Data (Hex)	HF830	HFC18	H0000	H07D0	H0FA0	H1900

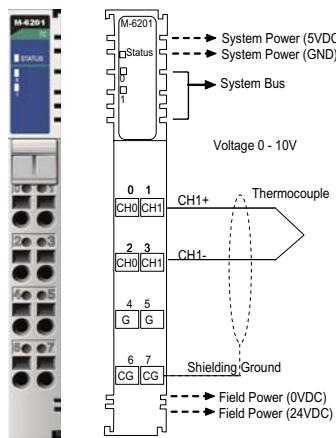
Other Sensor Type Data

Sensor Type	Degree	Count	Resolution
Resistance 100 mOhm	1 to 2000 Ohm	10 to 20000	100 mOhm / 1 count
Resistance 10 mOhm	1 to 327 Ohm	10 to 3270	10 mOhm / 1 count
Resistance 20 mOhm	1 to 620 Ohm	10 to 6200	20 mOhm / 1 count
PT50, 0.00385	200 to 850°C	-2000 to 8500	0.1°C or 0.1°F / 1 count
PT100, 0.00385	-200 to 850°C	-2000 to 8500	0.1°C or 0.1°F / 1 count
PT200, 0.00386	-200 to 850°C	-2000 to 8500	0.1°C or 0.1°F / 1 count
PT500, 0.00385	-200 to 850°C	-2000 to 8500	0.1°C or 0.1°F / 1 count
PT1000, 0.00385	-200 to 350°C	-2000 to 3500	0.1°C or 0.1°F / 1 count
JPT100, 0.003916	-200 to 640°C	-2000 to 6400	0.1°C or 0.1°F / 1 count
JPT200, 0.003916	-200 to 640°C	-2000 to 6400	0.1°C or 0.1°F / 1 count
JPT500, 0.003916	-200 to 640°C	-2000 to 6400	0.1°C or 0.1°F / 1 count
JPT1000, 0.003916	-200 to 350°C	-2000 to 3500	0.1°C or 0.1°F / 1 count
NI100, 0.00618	-60 to 250°C	-600 to 2500	0.1°C or 0.1°F / 1 count
NI120, 0.00672	-80 to 250°C	-800 to 2500	0.1°C or 0.1°F / 1 count
NI200, 0.00618	-60 to 250°C	-600 to 2500	0.1°C or 0.1°F / 1 count
NI500, 0.00618	-60 to 250°C	-600 to 2500	0.1°C or 0.1°F / 1 count
NI1000, 0.00618	-60 to 180°C	-600 to 2500	0.1°C or 0.1°F / 1 count
CU10, 0.00427	-200 to 260°C	-2000 to 2600	0.1°C or 0.1°F / 1 count



Analog Input Modules

Temperature sensing



M-6201 2 Analog inputs, Thermocouple

Input Specifications

Sensor types: Type J/K/T/E/R/S/B/N/L/U/C/D

mV input 10 μ V/bit, 2 μ V/bit

Data format: 16-bit integer (2's complement)

Resolution: 0.1°C / 10 mohm

Accuracy: +/- 0.1%, FSR @ 25°C

+/- 0.3%, FSR @ 0°C, 60°C

Input impedance: 500 Kohm

Conversion time: 200 msec. / all channels

Diagnostics: Range over (if range over, data=Dx8000)

General Specifications

Power dissipation: Max. 80 mA @ 5 VDC

Isolation: I/O to logic: 1k VDC galvanic isolation

Wiring: I/O cable max. AWG14

Conversion Table

Type B

Temp.	0 °C	300°C	900 °C	1800°C
Data (Hex)	H0000	H0BB8	H2328	H4650

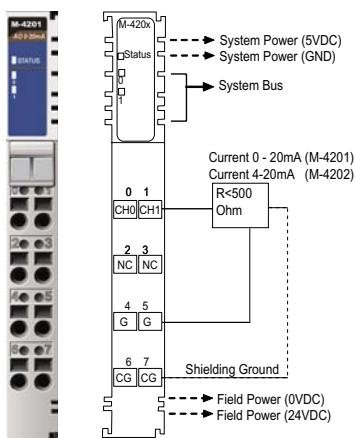
Other Sensor Type Data

Sensor Type	Degree	Count	Resolution
K	-200 to 12000°C	-6 to 54mV	0.1°C, °F/bit
J	-40 to 11000°C	-8 to 69mV	0.1°C, °F/bit
T	-200 to 350°C	-6 to 20mV	0.1°C, °F/bit
B	600 to 1700°C	0 to 13mV	0.1°C, °F/bit
R	0 to 1600°C	0 to 21mV	0.1°C, °F/bit
S	0 to 1600°C	0 to 18mV	0.1°C, °F/bit
E	-200 to 800°C	-9 to 76mV	0.1°C, °F/bit
N	-200-1250°C	-4 to 47mV	0.1°C, °F/bit
L	-150-850°C	-8 to 53mV	0.1°C, °F/bit
U	-150-550°C	-5 to 34mV	0.1°C, °F/bit
C	100-2200°C	0 to 37mV	0.1°C, °F/bit
D	100-2300°C	0 to 41mV	0.1°C, °F/bit
Voltage 10 μ V/bit			10 μ V/bit
Voltage 1 μ V/bit			1 μ V/bit
Voltage 2 μ V/bit			2 μ V/bit



Analog Output Modules

General Resolution



M-4201 2 Analog outputs, 0-20 mA, 12-bit M-4202 2 Analog outputs, 4-20 mA, 12-bit

Output Specifications

Resolution in ranges: 12 bits, $4.88 \mu\text{A}/\text{bit}$ (M-4201)
12 bits, $3.91 \mu\text{A}/\text{bit}$ (M-4202)

Input current range: 0 to 20 mA (M-4201)
4 to 20 mA (M-4202)

Data format: 16-bit integer (2's complement)

Accuracy: +/- 0.1%, FSR @ 25°C
+/- 0.3%, FSR @ 0°C, 60°C

Input impedance: Max. 500 ohm

Conversion time: 2 msec. / all channels

General Specifications

Power dissipation: Max. 65 mA @ 5 VDC

Isolation: I/O to logic: 1k VDC galvanic isolation

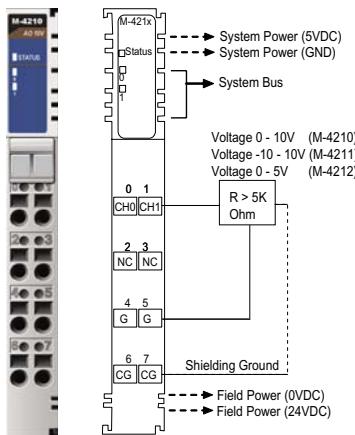
Wiring: I/O cable max. AWG14

Conversion Table (M-4201)

Current	0 mA	5 mA	10 mA	20 mA
Data (Hex)	H0000	H03FF	H07FF	H0FFF

Conversion Table (M-4202)

Current	4 mA	5 mA	10 mA	20 mA
Data (Hex)	H0000	H00FF	H05FF	H0FFF



M-4210 4 Analog outputs, 0-10V, 12-bit

M-4211 4 Analog outputs, -10-10V, 12-bit

M-4212 4 Analog outputs, 0-5V, 12-bit

Input Specifications

Resolution in ranges: 12 bits, $2.44 \text{ mV}/\text{bit}$ (M-4210)
12 bits, $4.88 \text{ mV}/\text{bit}$ (M-4211)
12 bits, $1.22 \text{ mV}/\text{bit}$ (M-4212)

Input current range: 0 to 10 VDC (M-4210)
-10 to 10 VDC (M-4211)
0 to 5 VDC (M-4212)

Data format: 16-bit integer (2's complement)

Accuracy: +/- 0.1%, FSR @ 25°C
+/- 0.3%, FSR @ 0°C, 60°C

Input impedance: Min. 5 Kohm

Conversion time: 2 msec. / all channel

General Specifications

Power dissipation: Max. 200 mA @ 5 VDC

Isolation: I/O to logic: 1k VDC galvanic isolation

Wiring: I/O cable max. AWG14

Conversion Table (M-4210)

Voltage	0V	2V	5V	10V
Data (Hex)	H0000	H0333	H07FF	H0FFF

Conversion Table (M-4211)

Voltage	-10V	-5V	0V	5V	10V
Data (Hex)	HF800	HFC00	H0000	H3FFF	H07FF

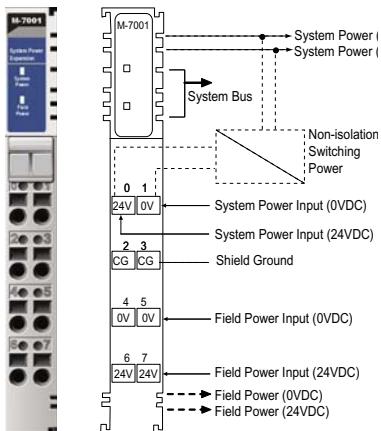
Conversion Table (M-4212)

Voltage	0V	2V	4V	5V
Data (Hex)	H0000	H0666	H0CCC	H0FFF



System Modules

System Power Module



M-7001 System power expansion, 1.0A/ 5 VDC

Input Specifications

System input voltage range: 11 VDC to 28.8 VDC

System power input voltage: Nominal 24 VDC

Field power input voltage: Nominal 24 VDC (+/-20%)

Output Specifications

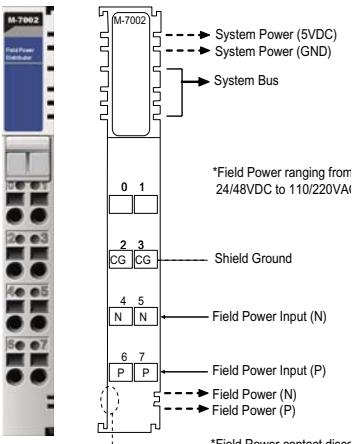
System bus output voltage: Max. 5 VDC

Field power contacts current: Max. 10A

Wiring: I/O cable max. AWG14

The system power expansion module is designed to provide extra power for connected I/O expansion modules.

When the overall I/O expansion module exceeds 1.5 Amp/ 5 VDC, you'll need to use an M-7001 module.



M-7002 Field power distributor

Input Specifications

Field power voltage: 5 VDC, 24 VDC, 48 VDC, 110 VAC, 220 VAC

Output Specifications

Field power contacts current: Max. 10A

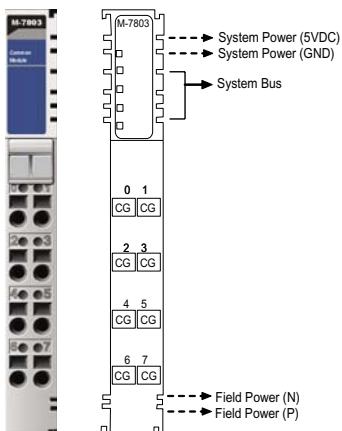
Wiring: I/O cable max. AWG14

The field power distributor is designed to isolate different field voltages. For example, before you connect a 48 VDC or 110 VAC DIO module to a 24 VDC DIO module, you'll need an M-7002 Field power distributor.



System Modules

System Power Module



M-7803 Potential Distributor

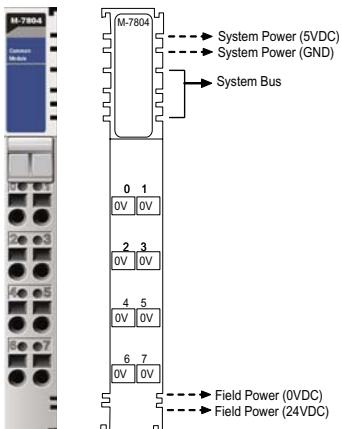
Input Specifications

Field power voltage: Shield signal

Output Specifications

Field power contacts current: Max. 10A

Wiring: I/O cable max. AWG14



M-7804 Potential distributor, 8-ch, 0V VDC

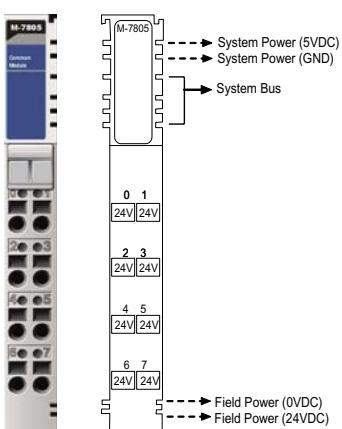
Input Specifications

Field power voltage: 0 VDC

Output Specifications

Field power contacts current: Max. 10A

Wiring: I/O cable max. AWG14



M-7805 Potential distributor, 8-ch, 24 VDC

Input Specifications

Field power voltage: 24 VDC

Output Specifications

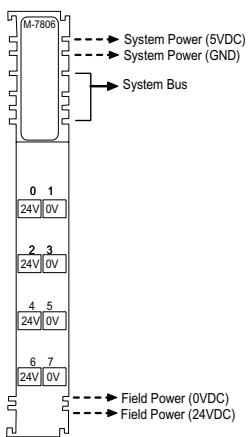
Field power contacts current: Max. 10A

Wiring: I/O cable max. AWG14



System Modules

System Power Module



M-7806 Potential distributor, 8-ch, 24/0V VDC

Input Specifications

Field power voltage: 24 VDC / 0 VDC

Output Specifications

Field power contacts current: Max. 10A

Wiring: I/O cable max. AWG14

General Specifications

Environmental Specifications	
Operating Temperature	-20 to 60°C (Discrete I/O) 0 to 60°C (Analog I/O)
Non-Operating Temperature	-40 to 85°C
Relative Humidity	5 to 90% Non-condensing
Operating Altitude	2,000 m
Mounting	DIN-Rail
General Specifications	
Wiring I/O Cable	I/O Cable Max. 2.0m ² (AWG 14)
Shock (Operating)	2g
Shock (Non-Operating)	30g
Protect. Class	IP20
Product Certifications	UL508, CE
Isolation	DC Module (Includes Analog Module): Terminal Block to F.G 500 VAC/1 min AC Module: Terminal Block to F.G 1500 VAC/1 min Relay Module: Terminal lock to F.G 2500 VAC/1 min
Gross Weight	Network Adapter: 180g I/O Modules: 70g



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