

ioLogik 4000 系列

模組化遠端 I/O



特色與優點

- 不需要背板的 I/O 擴充
- 與 MX-AOPC UA 伺服器進行主動通訊
- 支援 SNMP v1/v2c
- 使用模組化 ioAdmin 公用程式輕鬆配置
- 透過網頁瀏覽器輕鬆完成配置
- 使用 Windows 或 Linux 版 MXIO 程式庫簡化 I/O 管理

認證



簡介

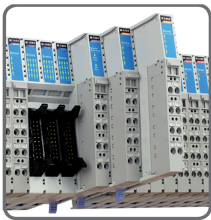
ioLogik 4000 系列適用於遠端監控和告警系統，例如用於水處理系統、供水系統、廢水處理系統和電力監控的系統。這些類型的應用需要更多的 I/O 點和各種 I/O 類型，包括溫度感測器、氣體偵測器和水質偵測器，所有這些都可以運用 ioLogik 4000 系列支援的各種 I/O 功能。

輕薄規格尺寸與靈活 I/O 組合

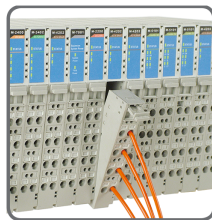
ioLogik 4000 系列獨特的模組化結構允許不同 I/O 模組混合與匹配使用，藉以滿足廣泛的遠端自動化應用需求。工業模組化外殼使 I/O 模組不需要背板即可新增到基本裝置。ioLogik 4000 系列相當適合空間有限的應用，並提供高密度 I/O 點以達到更大的彈性和可擴充性。模組幾乎可以連接至任何類型的感測器，包括但不限於用於溫度、壓力、流量、電壓、電流和觸點閉合的感測器。

便於維護

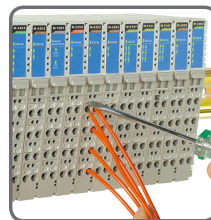
ioLogik 4000 系列配備可拆卸彈簧式接線端子模組 (RTB)，可省卻日後使用時進行現場接線的麻煩。



Slice-Type I/O Modules



Removable Terminal Block



Spring-Type Terminal Block



Module Coding Tag

規格

Input/Output Interface

Buttons	Reset button
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Control Logic

Language	ioLogik E4200: Click&Go, NA-4010/4020/4021: None
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Ethernet Interface

10/100BaseT(X) Ports (RJ45 connector)	NA-4010: 1 ioLogik E4200: 2, 2 MAC addresses
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Ethernet Software Features

Configuration Options	NA-4010/ioLogik E4200: Web Console (HTTP) NA-4010/4020/4021: Windows Utility (ioAdmin) ioLogik E4200: Windows Utility (Modular-ioAdmin)
Industrial Protocols	NA-4010: Modbus TCP Server (Slave), MXIO Library NA-4020/4021: MXIO Library ioLogik E4200: Modbus TCP Server (Slave), Moxa AOPC (Active Tag), MXIO Library, SNMPv1/v2c, SNMPv1 Trap
Management	NA-4010/ioLogik E4200: DHCP Client, HTTP, IPv4, TCP/IP, UDP NA-4010/4020/4021: ioAdmin ioLogik E4200: Modular-ioAdmin

Serial Interface

Connector	NA-4021: DB9 female NA-4020: Terminal block
Data Bits	7, 8
No. of Ports	1
Parity	None, Even, Odd
Serial Standards	NA-4021: RS-232 NA-4020: RS-485
Stop Bits	1, 2
Baudrate	NA-4020/4021: 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps

Serial Software Features

Industrial Protocols	NA-4020/4021: Modbus RTU/ASCII Slave
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Serial Signals

RS-232	NA-4021: TxD, RxD, GND
RS-485-2w	NA-4020: Data+, Data-, GND

DIP Switch Configuration

Serial Interface	Fixed baudrate
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Modbus TCP

Max. No. of Client Connections	8
Mode	Client (Master)

Power Parameters

No. of Power Inputs	1
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System Power Parameters

Power Connector	Spring-type Euroblock terminal
No. of Power Inputs	1
Input Voltage	11 to 28.8 VDC
Power Consumption	NA-4010: 60 mA @ 24 VDC NA-4020/4021: 70 mA @ 24 VDC ioLogik E4200: 175 mA @ 24 VDC

Field Power Parameters

Power Connector	Spring-type Euroblock terminal
No. of Power Inputs	1
Input Voltage	11 to 28.8 VDC
Current in Field Power Contact	10 A (max.)

Physical Characteristics

Housing	Plastic
Dimensions	45 x 99 x 70 mm (1.77 x 3.90 x 2.76 in)
Weight	NA-4010/4020/4021: 150 g (0.33 lb) ioLogik E4200: 180 g (0.396 lb)
Installation	DIN-rail mounting

Environmental Limits

Operating Temperature	-10 to 60°C (14 to 140°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Altitude	2000 m ¹

Standards and Certifications

EMC	EN 61000-6-2/-6-4
EMI	CISPR 22, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF
Safety	UL 508
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6

Declaration

Green Product	RoHS, CRoHS, WEEE
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MTBF

Time	NA-4010: 4,739,300 hrs NA-4020: 4,721,640 hrs NA-4021: 4,695,360 hrs ioLogik E4200: 357,000 hrs
Standards	Telcordia SR332

Warranty

Warranty Period	2 years
Details	See www.moxa.com/tw/warranty

1. 如果您需要產品能在高海拔地區正常運作，請與 Moxa 聯繫。

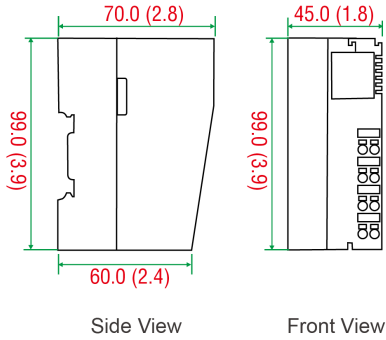
Package Contents

Device	1 x ioLogik 4000 Series remote I/O
Installation Kit	1 x terminal block, 8-pin, 3.81 mm
Documentation	1 x quick installation guide (ioLogik E4200) 1 x warranty card
Note	This product requires additional modules (sold separately) to function.

尺寸

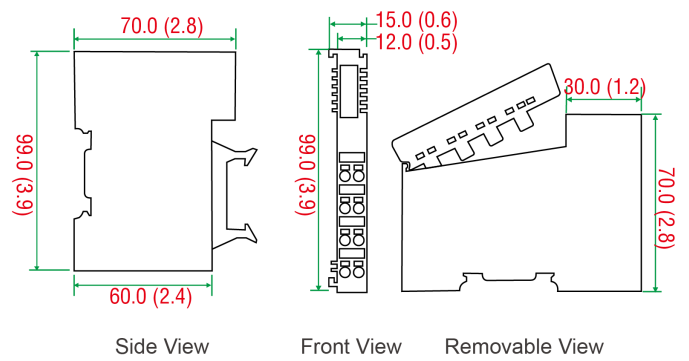
I/O 網路轉接器

單位：公釐 (英吋)



I/O 模組

單位：公釐 (英吋)



訂購資訊

Model Name	Control Logic	Ethernet Interface	Serial Interface	No. of Support I/O Modules
ioLogik E4200	Click&Go	2 x RJ45	-	16
NA-4010	-	1 x RJ45	-	32
NA-4020	-	-	RS-485	32
NA-4021	-	-	RS-232	32

配件 (選購)

I/O Modules

M-1450	For the ioLogik 4000 Series, 4 DI, 110 VAC
M-1451	For the ioLogik 4000 Series, 4 DI, 220 VAC
M-1600	For the ioLogik 4000 Series, 16 DI, 24 VDC, sink type
M-1601	For the ioLogik 4000 Series, 16 DI, 24 VDC, source type
M-1800	For the ioLogik 4000 Series, 8 DI, 24 VDC, sink type
M-1801	For the ioLogik 4000 Series, 8 DI, 24 VDC, source type
M-2450	For the ioLogik 4000 Series, 4 relays, 24 VDC/230 VAC, 2 A
M-2600	For the ioLogik 4000 Series, 16 DO, 24 VDC, 0.5 A, sink type
M-2601	For the ioLogik 4000 Series, 16 DO, 24 VDC, 0.5 A, source type
M-2800	For the ioLogik 4000 Series, 8 DO, 24 VDC, 0.5 A, sink type
M-2801	For the ioLogik 4000 Series, 8 DO, 24 VDC, 0.5 A, source type
M-3802	For the ioLogik 4000 Series, 8 AI, 4 to 20 mA, 12 bits
M-3810	For the ioLogik 4000 Series, 8 AI, 0 to 10 V, 12 bits
M-4402	For the ioLogik 4000 Series, 4 AO, 4 to 20 mA, 12 bits

M-4410	For the ioLogik 4000 Series, 4 AOs, 0 to 10 V, 12 bits
M-6200	For the ioLogik 4000 Series, 2 AIs, RTD: PT100, JPT100
M-6201	For the ioLogik 4000 Series, 2 AIs, TC

Power Modules

M-7001	For the ioLogik 4000 Series, system power module
M-7002	For the ioLogik 4000 Series, field power module
M-7804	For the ioLogik 4000 Series, potential distributor module, 0 VDC 8 channel
M-7805	For the ioLogik 4000 Series, potential distributor module, 24 VDC, 8 channel

Software

MX-AOPC UA Server	OPC UA Server software for converting fieldbus to the OPC UA standard
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