

ioLogik 4000 系列 (M) 模組

遠端 I/O 模組



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。

規格

Input/Output Interface

Digital Input Channels	M-1450/1451: 4 M-1800/1801: 8 M-1600/1601: 16
Digital Output Channels	M-2800/2801: 8 M-2600/2601: 16
Analog Input Channels	M-3802/3810: 8
Analog Output Channels	M-4402/4410: 4
Thermocouple Channels	M-6201: 2
RTD Channels	M-6200: 2
Isolation	3k VDC or 2k Vrms

Digital Inputs

Connector	M-1450/1451/1800/1801: Spring-type Euroblock terminal M-1600/1601: I/O flat cable, 20-pin
I/O Mode	DI
Points per COM	M-1450/1451: 2 channels M-1600/1601/1800/1801: 8 channels
Sensor Type	M-1800/1801: NPN M-1600/1601: PNP

Digital Outputs

Connector	M-2800/2801: Spring-type Euroblock terminal M-2600/2601: I/O flat cable, 20-pin
Current Rating	500 mA per channel
I/O Type	M-2600/2800: Sink M-2601/2801: Source
I/O Mode	DO

Relays

Connector	Spring-type Euroblock terminal
Contact Current Rating	Resistive load: 2 A @ 24 VDC Resistive load: 0.5 A @ 110 VDC Resistive load: 2 A @ 230 VAC
Type	Form A (N.O.) power relay

Analog Inputs

Accuracy	$\pm 0.1\%$ FSR @ 25°C $\pm 0.3\%$ FSR @ 0 and 60°C
Connector	Spring-type Euroblock terminal
I/O Mode	Voltage/Current
Input Impedance	M-3810: 500 kilo-ohms (min.) M-3801: 120 ohms
Input Range	M-3810: 0 to 10 VDC M-3802: 4 to 20 mA

Analog Outputs

Accuracy	$\pm 0.1\%$ FSR @ 25°C $\pm 0.3\%$ FSR @ 0 and 60°C
Connector	Spring-type Euroblock terminal
Output Range	M-4410: 0 to 10 VDC M-4402: 4 to 20 mA
Resolution	12-bit
I/O Mode	Static
I/O Type	Single-ended
Output Impedance	500 ohms

RTDs

Accuracy	$\pm 0.1\%$ FSR @ 25°C $\pm 0.3\%$ FSR @ 0 and 60°C
Connector	Spring-type Euroblock terminal
Input Impedance	500 kilo-ohms (min.)

Sensor Type	JPT100, JPT200, JPT500 (-200 to 640°C) JPT1000 (-200 to 350°C) NI100, NI50, NI500 (-60 to 250°C) NI1000 (-60 to 150°C) NI120 (-80 to 260°C) CU10
Resolution	0.1°C or 0.1 ohms

Thermocouples

Millivolt Accuracy	±0.1% FSR @ 25°C ±0.3% FSR @ 0 and 60°C
Connector	Spring-type Euroblock terminal
Millivolt Type	±19.532 mV ±39.062 mV ±78.126 mV
Resolution	12-bit 0.1°C or 10 µV
Sensor Type	J, K, T, E, R, S, B, N
Input Impedance	500 kilo-ohms (min.)

Power Parameters

Power Connector	Spring-type Euroblock terminal
No. of Power Inputs	M-7001: 2 M-7002: 1
Input Voltage	M-7001: 24 VDC, 11 to 28.8 VDC M-7002: 5/24/48 VDC, 110/220 VAC
Power Consumption	M-1450/1451/1800/1801: 35 mA @ 5 VDC M-1600/1601: 40 mA @ 5 VDC M-2450: 65 mA @ 5 VDC M-2600/2601/2800/2801/3810/4402/4410: 60 mA @ 5 VDC M-3802/6200/6201: 80 mA @ 5 VDC
Channels	M-7804: 8 M-7805: 8
Mode	M-7804: 0 VDC M-7805: 24 VDC

Physical Characteristics

Housing	Plastic
Dimensions	14.1 x 99 x 70 mm (0.56 x 3.90 x 2.76 in)
Weight	Under 80 g
Installation	DIN-rail mounting
Wiring	I/O cable, 14 to 28 AWG

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)

Standards and Certifications

EMC	EN 55032/24, EN 61000-6-2/-6-4
EMI	CISPR 32, 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: 3 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	M-1450: 19,482,240 hrs M-1451: 19,727,520 hrs M-1600: 11,659,560 hrs M-1601: 11,694,600 hrs M-1800: 15,759,240 hrs M-1801: 15,811,800 hrs M-2450: 14,033,520 hrs M-2600: 9,732,360 hrs M-2601: 9,749,880 hrs M-2800: 13,884,600 hrs M-2801: 14,340,120 hrs M-3802: 7,375,920 hrs M-3810: 7,288,320 hrs M-4402: 7,840,200 hrs M-4410: 6,219,600 hrs M-6200: 3,644,160 hrs M-6201: 3,828,120 hrs M-7001: 19,569,840 hrs M-7002: 75,528,720 hrs M-7804: 73,750,440 hrs M-7805: 73,750,440 hrs
Standards	Telcordia SR332

Warranty

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

Package Contents

Device	1 x ioLogik 4000 Series (M) Module
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訂購資訊

Model Name	Input/Output Interface	Digital Input	Digital Output	Relay	Analog Input Type	Analog Output Type	System Power Module	Field Power Module	Potential Distributor Module
M-1450	4 x DI	110 VAC	–	–	–	–	–	–	–
M-1451	4 x DI	220 VAC	–	–	–	–	–	–	–
M-1600	16 x DI	Sink 24 VDC	–	–	–	–	–	–	–

Model Name	Input/Output Interface	Digital Input	Digital Output	Relay	Analog Input Type	Analog Output Type	System Power Module	Field Power Module	Potential Distributor Module
M-1601	16 x DI	Source 24 VDC	–	–	–	–	–	–	–
M-1800	8 x DI	Sink 24 VDC	–	–	–	–	–	–	–
M-1801	8 x DI	Source 24 VDC	–	–	–	–	–	–	–
M-2450	4 x Relay	–	–	Form A 24 VDC/230 VAC, 2 A	–	–	–	–	–
M-2600	16 x DO	–	Sink 24 VDC	–	–	–	–	–	–
M-2601	16 x DO	–	Source 24 VDC	–	–	–	–	–	–
M-2800	8 x DO	–	Sink 24 VDC	–	–	–	–	–	–
M-2801	8 x DO	–	Source 24 VDC	–	–	–	–	–	–
M-3802	8 x AI	–	–	–	4-20 mA	–	–	–	–
M-3810	8 x AI	–	–	–	0-10 V	–	–	–	–
M-4402	4 x AO	–	–	–	–	4-20 mA	–	–	–
M-4410	4 x AO	–	–	–	–	0-10 V	–	–	–
M-6200	2 x RTD	–	–	–	RTD	–	–	–	–
M-6201	2 x TC	–	–	–	TC	–	–	–	–
M-7001	–	–	–	–	–	–	10A/5 VDC	–	–
M-7002	–	–	–	–	–	–	–	DC: 5 VDC, 24 VDC, 48 VDC AC: 110 VAC, 220 VAC	–
M-7804	–	–	–	–	–	–	–	–	8-ch, 0 VDC
M-7805	–	–	–	–	–	–	–	–	8-ch, 24 VDC

配件 (選購)

Cables

20P To 20P Flat Cable-500mm	20-to-20-pin flat cable for connecting the TB 1600 and ioLogik 4000 Series, 50 cm Applicable Models: M-1600 M-1601 M-2600 M-2601
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Terminal Modules

TB1600	DIN-rail mounting screw terminal module, 20-pin connector, 3.81 mm pitch, 77.5 x 67.5 x 51 mm Applicable Models: M-1600 M-1601 M-2600 M-2601
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