NX-series Analog I/O Unit

Analog inputs and outputs to meet all machine control needs, from general purpose to high-speed synchronous control

- Connect to other NX I/O Units and EtherCAT[®] Coupler Units using the high-speed NX-bus
- Separate modules for voltage and current



Features

- Up to eight analog inputs per unit (NX-AD)
- Up to four analog outputs per unit (NX-DA)
- Free-run refreshing or synchronous I/O refreshing with the NX1P2 CPU Unit or EtherCAT Coupler Unit
- \bullet Sampling times down to 10 μs per channel and high resolution of 1/30,000
- Single-ended or differential input (NX-AD)
- Selecting channel to use, moving average, input disconnection detection, over range/under range detection, and user calibration
- Detachable front connector with screwless Push-In Plus terminals for easy installation and maintenance
- Compact with a width of 12 mm per unit
- Connect to the CJ PLC using the EtherNet/IP[™] bus coupler

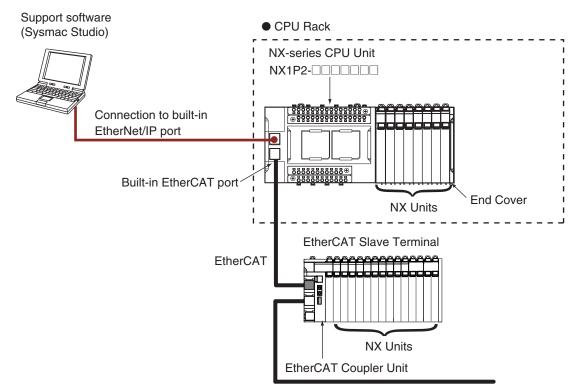
Sysmac is a trademark or registered trademark of OMRON Corporation in Japan and other countries for OMRON factory automation products. EtherCAT[®] is a registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany. EtherNet/IP[™] is a trademark of ODVA.

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System Configurations

Connected to a CPU Unit or Communication Control Unit

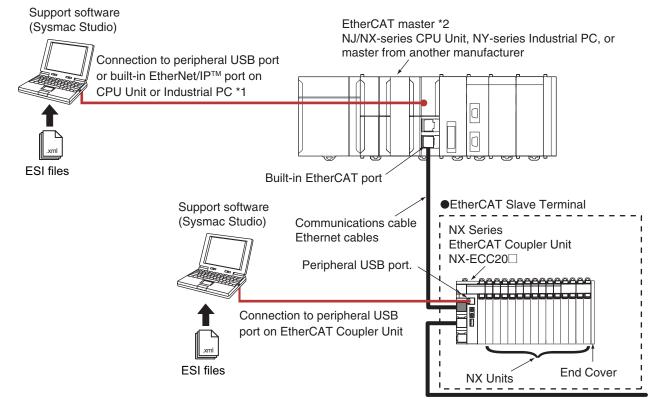
The following figure shows a system configuration when NX Units are connected to an NX-series CPU Unit.



Note: For whether an NX Unit can be connected to the CPU Unit, refer to the version information.

Connected to an EtherCAT Coupler Unit

The following figure shows an example of the system configuration when an EtherCAT Coupler Unit is used as a Communications Coupler Unit.

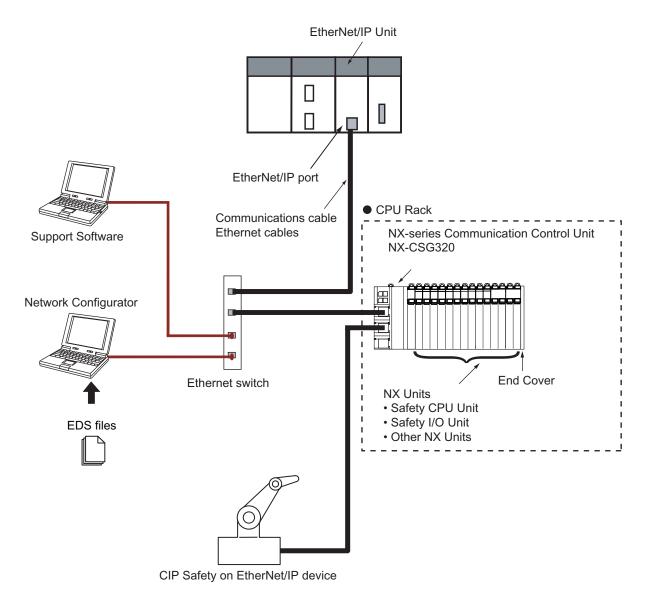


- *1. The connection method for the Sysmac Studio depends on the model of the CPU Unit or Industrial PC.
- *2. An EtherCAT Slave Terminal cannot be connected to any of the OMRON CJ1W-NC 81/82 Position Control Units even though they can operate as EtherCAT masters.

Note: For whether an NX Unit can be connected to the Communications Coupler Unit, refer to the version information.

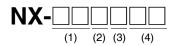
System Configuration in the Case of a Communication Control Unit

The following figure shows a system configuration when a group of NX Units is connected to an NX-series Communication Control Unit. To configure a Safety Network Controller, mount the Safety CPU Unit, which is one of the NX Units, to the CPU Rack of the Communication Control Unit.



Note: For whether an NX Unit can be connected to the Communication Control Unit, refer to the version information.

Model Number Structure



(1) Unit type

<u>`</u>	,	
	No.	Specification
	AD	Analog input
	DA	Analog output

(2) Number of points

No.	Specification	
2	2 points	
3	4 points	
4	8 points	

(3) I/O range

(-) 5-					
No.	Specification				
1					
2	4 to 20 mA				
6	-10 to +10 V				

(4) Other specifications Analog Input Units

				I/O refreshing method			
No.	Resolution	Conversion time	Input method	Free-Run refreshing *1 only	Switching synchronous I/O refreshing *2 and Free-Run refreshing		
03	1/8000	250 μs/point	Single-ended	Yes			
04	1/8000	250 μs/point	Differential	Yes			
08	1/30000	10 μs/point	Differential		Yes		

*1 Free-Run refreshing*2 Synchronous I/O refreshing

Analog Output Units

			I/O refreshing method			
No.	Resolution	Conversion time	Free-Run refreshing *1 only	Switching synchronous I/O refreshing *2 and Free-Run refreshing		
03	1/8000	250 μs/point	Yes			
05	1/30000	10 μs/point		Yes		

***1** Free-Run refreshing *2 Synchronous I/O refreshing

Ordering Information

Applicable standards

Refer to the OMRON website (www.ia.omron.com) or ask your OMRON representative for the most recent applicable standards for each model.

Analog Input Units

		1	1	1	Specificat	ion		1		
Product name	Number of points	Input range	Resolution	Conversion value, decimal number (0 to 100%)	Over all accuracy (25°C)	Input method	Conversion time	Input impedance	I/O refreshing method	Model
					±0.2%	Single-ended input	250 μs/		Free-Run	NX-AD2603
			1/8000	-4000 to 4000	(full scale)	Differential input	point		refreshing	NX-AD2604
	2 points		1/30000	-15000 to 15000	±0.1% (full scale)	Differential input	10 μs/ point		Selectable Synchronous I/O refreshing or Free-Run refreshing	NX-AD2608
Voltage Input type					±0.2%	Single-ended input	250 μs/		Free-Run	NX-AD3603
		-10 to	1/8000	-4000 to 4000	(full scale)	Differential input	point		refreshing	NX-AD3604
	4 points	-10 to +10 V	1/30000	-15000 to 15000	±0.1% (full scale)	Differential input	10 μs/ point	1 MΩ min. Selectable Synchronous I/O refreshing or Free-Run refreshing Selectable Synchronous I/O refreshing or Free-Run refreshing	NX-AD3608	
			1/8000	-4000 to 4000	±0.2% (full scale)	Single-ended input	250 μs/			NX-AD4603
						Differential input	point			NX-AD4604
	8 points		1/30000	-15000 to 15000	±0.1% (full scale)	Differential	10 μs/ point		Synchronous I/O refreshing or Free-Run	NX-AD4608
			1/2022	0 to 8000	±0.2%	Single-ended input	250 μs/	- 250 Ω	Free-Run	NX-AD2203
	2 points	4 to 20 mA	1/8000		(full scale)	Differential	point		refreshing	NX-AD2204
			1/30000	0 to 30000	±0.1% (full scale)	Differential input	10 μs/ point		Selectable Synchronous I/O refreshing or Free-Run refreshing	NX-AD2208
Current Input type			1/0000	0.4- 0000	±0.2%	Single-ended input	250 μs/	200 32	Free-Run refreshing	NX-AD3203
			1/8000	0 to 8000	(full scale)	Differential input	point			NX-AD3204
			1/30000	0 to 30000	±0.1% (full scale)	Differential input	10 μs/ point		Selectable Synchronous I/O refreshing or Free-Run refreshing	NX-AD3208
		1			±0.2%	Single-ended input	250 μs/		Free-Run	NX-AD4203
			1/8000	0 to 8000	±0.2% (full scale)	Differential	point		refreshing	NX-AD4204
	8 points		1/30000	0 to 30000	±0.1% (full scale)	Differential	10 μs/ point	85 Ω	Selectable Synchronous I/O refreshing or Free-Run refreshing	NX-AD4208

Analog Output Units

	Specification							
Product name	Number of points	Output range	Resolution	Output setting value, decimal number (0 to 100%)	Over all accuracy (25°C)	Conversion time	I/O refreshing method	Model
Voltage Output type			1/8000	-4000 to 4000	±0.3% (full scale)	250 μs/point	Free-Run refreshing	NX-DA2603
	2 points	-10 to	1/30000	-15000 to 15000	±0.1% (full scale)	10 μs/point	Selectable Synchronous I/O refreshing or Free- Run refreshing	NX-DA2605
	4 points	+10 V	1/8000	-4000 to 4000	±0.3% (full scale)	250 μs/point	Free-Run refreshing	NX-DA3603
			1/30000	-15000 to 15000	±0.1% (full scale)	10 μs/point	Selectable Synchronous I/O refreshing or Free- Run refreshing	NX-DA3605
Current Output type	2 points	4 to 20 mA	1/8000	0 to 8000	±0.3% (full scale)	250 μs/point	Free-Run refreshing	NX-DA2203
			1/30000	0 to 30000	±0.1% (full scale)	10 μs/point	Selectable Synchronous I/O refreshing or Free- Run refreshing	NX-DA2205
	4 points		1/8000	0 to 8000	±0.3% (full scale)	250 μs/point	Free-Run refreshing	NX-DA3203
			1/30000	0 to 30000	±0.1% (full scale)	10 μs/point	Selectable Synchronous I/O refreshing or Free- Run refreshing	NX-DA3205

Optional Products

Product name		Specification				
Unit/Terminal Block Coding Pins	For 10 Units (Terminal Block: 30 pins,	or 10 Units "erminal Block: 30 pins, Unit: 30 pins)				
	Specification					
Product name	No. of terminals	Terminal number indications	Ground terminal mark	Terminal current capacity	Model	
	8		None		NX-TBA082	
Terminal Block	12	A/B		10 A	NX-TBA122	
	16	1			NX-TBA162	

Accessories

Not included.

General Specifications

	Item	Specification		
Enclosure		Mounted in a panel		
Grounding m	ethod	Ground to 100 Ω or less		
	Ambient operating temperature	0 to 55°C		
	Ambient operating humidity	10% to 95% (with no condensation or icing)		
	Atmosphere	Must be free from corrosive gases.		
	Ambient storage temperature	-25 to 70°C (with no condensation or icing)		
	Altitude	2,000 m max.		
	Pollution degree	2 or less: Meets IEC 61010-2-201.		
Operating environment	Noise immunity	2 kV on power supply line (Conforms to IEC61000-4-4.)		
environment	Overvoltage category	Category II: Meets IEC 61010-2-201.		
	EMC immunity level	Zone B		
	Vibration resistance	Conforms to IEC 60068-2-6. 5 to 8.4 Hz with 3.5-mm amplitude, 8.4 to 150 Hz, acceleration of 9.8 m/s ² , 100 min each in X, Y, and Z directions (10 sweeps of 10 min each = 100 min total)		
	Shock resistance	IConforms to IEC 60068-2-27. 147 m/s ² , 3 times each in X, Y, and Z directions		
Applicable standards *		cULus: Listed (UL508), ANSI/ISA 12.12.01, EU: EN 61131-2, C-Tick or RCM, KC Registration, NK, LR		

* Refer to the OMRON website (www.ia.omron.com) or ask your OMRON representative for the most recent applicable standards for each model.

Analog Input Unit Specifications

Analog Input Unit (voltage input type) 2 points NX-AD2603

Unit name	Analog Input Unit (voltage input type)	Model	NX-AD2603			
Number of points	2 points	External connection terminals	Screwless clamping terminal block (8 terminals)			
/O refreshing method	Free-Run refreshing					
	TS indicator	Input method	Single-ended input			
	AD2603	Input range	-10 to +10 V			
	∎TS	Input conversion range	-5 to 105% (full scale)			
		Absolute maximum rating	±15 V			
Indicator		Input impedance	1 M Ω min.			
		Resolution	1/8000 (full scale)			
		Overall 25°C	±0.2% (full scale)			
		accuracy 0 to 55°C	±0.4% (full scale)			
		Conversion time	250 μs/point			
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Between the input and the NX bus: Powe = Transformer, Signal = Digital isolator (no isolation between inputs)			
Insulation resistance	20 M Ω min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.			
I/O power supply method	Supply from the NX bus	Current capacity of I/O power supply terminal	IOV: 0.1 A/terminal max., IOG: 0.1 A/terminal max.			
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 1.35 W max. Connected to a Communications Coupler Unit 1.05 W max. 	I/O current consumption	No consumption			
Weight	70 g max.					
Circuit layout	Terminal block IOV Terminal block Input1+ to 2+ IOG NX bus connector (left) I/O power supply + I/O power supply –	AG AG: Analog circuit ir	I/O power supply + NX bus connector I/O power supply – (right)			
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communic • Connected to a Communications Couple Restrictions: No restrictions					
Terminal connection diagram	Additional I/O Power Supply Unit A1 B1 I OV IOV 24 VDC A8 B8 C		Input + 24 V (Sensor power supply +) 0 V (Sensor power supply – / Input –) e-wire sensor			
Input disconnection	Not supported.					

Number of points 2 points External connection terminals Screwless clamping terminal block (8 terminals) I/O refreshing method Free-Run refreshing Input method Differential Input Indicator AD2604 Input method Differential Input Indicator AD2604 Input range -10 to +10 V Input conversion range -5 to 105% (full scale) Absolute maximum rating Input impedance 1 MΩ min. 18000 (full scale) Overall accuracy 25°C ±0.2% (full scale) Overall accuracy 10 to 55°C ±0.4% (full scale) Dimensions 12 (W) x 100 (H) x 71 (D) Isolation method Between the input and the NX bus: Pow = Transformer, Signal = Digital isolator (isolation between inputs)			· ·	[
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Indicator Imput range -10 to +10 V Input conversion range -5 to 105% (til scale) Absolute maximum ±15 V Input conversion range -5 to 105% (til scale) Absolution 1/8000 (til scale) Overall 28°C ±0.2% (till scale) Overall 28°C ±0.2% (till scale) Owerall 28°C ±0.4% (till scale) Owerall 28°C ±0.4% (till scale) Insulation resistance 20 ML min. between isolated circuits (at 0 VO Dover supply Dielectric strength 510 VAC between isolated circuits for 1 Mo Dover supply No supply Current capacity of I/O power supply terminal Without I/O power supply terminal NX Unit power consumption • Connected to a CPU Unit or Communication Corrol Unit 1.35 W max. V/O current consumption No consumption No tase Mo power supply till terminal V/O current consumption No power supply terminal Nt base <th>I/O refreshing method</th> <th></th> <th></th> <th></th>	I/O refreshing method							
Indicator Imput conversion range Absolute maximum rating Imput impedance 1 M2 min. -5 to 105% (full scale) Input impedance 1 M2 min. -5 to 105% (full scale) Overall 2 Conversion Time 2 Dispoint 25 C 2 D 42% (full scale) Dimensions 12 (W) x 100 (H) x 71 (D) Isolation method Insulation resistance 20 M2 min. between isolated circuits (at 100 VDC) Dielectric strength 100 VDC) Dielectric strength 100 VDC) Most unit power consumption 20 M2 min. between isolated circuits (at 100 VDC) Dielectric strength 100 VDC) Without I/O power supply terminal NX Unit power consumption 20 M2 min. between isolated circuits (at 100 VDC) Current consumption Without I/O power supply terminals Vog power supply method 0 connected to a CPU Unit or Communication Control Unit 1.05 W max. V/O current consumption No consumption Vog power supply method 70 g max Imput H 0.2 for the strength M0 power supply - for the strength H0 power su			•					
Indicator Absolute maximum rating input impedance ±15 V Input impedance 1 MΩ min. Resolution 1/8000 (hill scale) Overall 25°C ±0.2% (kill scale) Overall 25°C ±0.4% (kill scale) Dimensions 12 (W) x 100 (H) x 71 (D) isolation method Between the input and the NX bus: Pow = Transformer. Signal = Digital isolator isolation between isolated circuits (at the power supply No supply 20 MQ min. between isolated circuits (at the power supply Dielectric strength 510 VAC between isolated for with a finite operation of S nA min to VO power supply terminal NX Unit power consumption • Connected to a CPU Unit or 1.0 SW max. V/O current consumption No consumption NX Unit power consumption • Connected to a Communications Coupler unit V/O current consumption No consumption NU to be were consumption • Connected to a Communications Coupler unit V/O current consumption No consumption NU to be were consumption • Connected to a Communications Coupler unit V/O current consumption No consumption NU to be were consumption • Connected to a Communications Up power supply - Up and the consult internal OHD No consumption Installation orientation: encoreneatide to a Communications Coupler Unit								
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Conversion time 250 µs/point Dimensions 12 (W) x 100 (H) x 71 (D) Isolation method Between the input and the NX bus: Por Transformer, Signal = Digital isolator isolation between isolated circuits (at 100 VDC) Dielectric strength Si 0 VAC between isolated circuits for minute at a leakage ourrent of 5 mA me without 1/O power supply VO power supply No supply Current capacity of V/O power supply terminal Without 1/O power supply terminals NX Unit power consumption • Connected to a CPU Unit or Communication Control Unit 1.35 W max. • Connected to a CPU Unit or Connected to a Communications Coupler Unit 1.05 W max. No consumption No consumption Vieight 70 g max. VO eurrent consumption No consumption Circuit layout 70 g max. Input + to 2+ (H) (H) power supply + (H) power supply - (H) power supply - (H) power supply + (H) power supply - (H) power supply + (H) power supply - (H) power supply - (H) power supply + (H) power su			overall					
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Insultation resistance 100 VDC) We want the end of	Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	= Transformer, Signal = Digital isolator (no				
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NX Unit power consumption Communication Control Unit 1.35 W max. I/O current consumption No consumption Weight 70 g max. Circuit layout 70 g max. Installation orientation (eff) Input1+ to 2+ (uput1- to 2- (eff) Input1+ to 2+ (uput1- to 2- (uput1- to 2- (upower supply-) I/O power supply + (uput1- to 2- (uput1- to 2- (uput1- to 2- (uput1- to 2- (uput1- to 2- (upower supply-)) I/O power supply + (up power supply-) Installation orientation and restrictions Installation orientation: • Connected to a CPU Unit or Communication Control Unit: Possible in upright installation. • Connected to a CPU Unit or Communication Control Unit: Possible in orientation: • Connected to a CPU Unit Possible in 6 orientation: • Connected to a Communications Coupler Unit: Possible in 6 orientations. Restrictions: No restrictions Terminal connection diagram Imput1+ (uput1- (uput1) Imput + (uput1- (uput1)		No supply		Without I/O power supply terminals				
Circuit layout Terminal block Input1+ to 2+ Input1- to 2- AG Input1+ to 2+ AG Input + Input - AG Input + AG Input + AG Input + AG Input1+ to 2+ AG Input + AG	consumption	Communication Control Unit 1.35 W max. • Connected to a Communications Coupler Unit 1.05 W max.	I/O current consumption	No consumption				
Circuit layout Terminal block Input1- to 2- AG ANP AG Analog circuit internal GND AG I/O power supply + I/O power supply + I/O power supply + I/O power supply - I/O power su	Weight	70 g max.						
Installation orientation and restrictions Connected to a CPU Unit or Communication Control Unit: Possible in upright installation. Connected to a Communications Coupler Unit: Possible in 6 orientations. Restrictions: No restrictions Terminal connection diagram Voltage Input Unit NX-AD2604 Input + Input + Input + Input - Input + Input - Input -	Circuit layout	Terminal block Input1- to 2- AG NX bus connector I/O power supply +	510 ΚΩ	I/O power supply + NX bus connector				
Terminal connection diagram		 Connected to a CPU Unit or Communication Control Unit: Possible in upright installation. Connected to a Communications Coupler Unit: Possible in 6 orientations. 						
		ninal connection pram						
Input disconnection detection Not supported.		Not supported.						

Analog Input Unit (voltage input type) 2 points NX-AD2604

Unit name	Analog Input Unit (voltage input type)	Model		NX-AD2608	
Unit name	External connection		onnection	Screwless clamping terminal block (8	
Number of points	2 points	terminals		terminals)	
I/O refreshing method	Selectable Synchronous I/O refreshing or F				
	TS indicator	Input meth		Differential Input	
	AD2608	Input rang		-10 to +10 V	
		•	version range	-5 to 105% (full scale)	
		Absolute r rating	naximum	±15 V	
Indicator		Input impe	dance	1 MΩ min.	
		Resolution		1/30000 (full scale)	
		Overall	25°C	±0.1% (full scale)	
			0 to 55°C	±0.2% (full scale)	
		Conversio	n time	10 μs/point	
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation n	nethod	Between the input and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between inputs)	
Insulation resistance	20 M Ω min. between isolated circuits (at 100 VDC)	Dielectric	strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.	
I/O power supply method	No supply		pacity of I/O	Without I/O power supply terminals	
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 1.35 W max. Connected to a Communications Coupler Unit 1.05 W max. 	I/O current consumption		No consumption	
Weight	70 g max.				
Circuit layout	Terminal block Input1+ to 2+	AM \$ 510 KΩ AG A	AG: Analog circuit inte	rnal GND I/O power supply + NX bus connector (right)	
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communica • Connected to a Communications Couple Restrictions: No restrictions				
Terminal connection diagram	AG AG NC NC AG terminal is connected	✓ Input + ✓ Input – Input – nnected to 0 V of analog circuit inside the Unit. y to wire AG terminal normally.			
Input disconnection detection	Not supported.				

Analog Input Unit (voltage input type) 2 points NX-AD2608

Unit name	Analog Input Unit (voltage input type)	Model		NX-AD	3603
		External co	onnection		ess clamping terminal block (12
Number of points	4 points	terminals	Jimeetion	termina	
I/O refreshing method	Free-Run refreshing				
	TS indicator	Input meth		· ·	ended input
	AD3603 DTS	Input range		-10 to -	
		•	ersion range	-5 to 10	05% (full scale)
Indicator		Absolute n rating		±15 V	
Indicator		Input impe		1 MΩ r	nin.
		Resolution			(full scale)
		Overall	25°C		(full scale)
		-	0 to 55°C		(full scale)
		Conversio	n time	250 μs	
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation m	nethod	= Trans	en the input and the NX bus: Power sformer, Signal = Digital isolator (no n between inputs)
Insulation resistance	20 M Ω min. between isolated circuits (at 100 VDC)	Dielectric s	strength		C between isolated circuits for 1 at a leakage current of 5 mA max.
I/O power supply method	Supply from the NX bus		pacity of I/O ply terminal		1 A/terminal max., 0.1 A/terminal max.
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 1.35 W max. Connected to a Communications Coupler Unit 1.10 W max. 	I/O current consumption		No cor	sumption
Weight	70 g max.				
Circuit layout	Terminal block IND Input1+ to 4+ IOG AG: Analog circuit internal GND NX bus connector (left) I/O power supply + I/O power supply - I/O power supply -				
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communication Control Unit: Possible in upright installation. • Connected to a Communications Coupler Unit: Possible in 6 orientations. Restrictions: No restrictions				
Terminal connection diagram	Additional I/O Power Supply Unit A1 IOV IOV IOV IOV IOV IOV IOV IOV	Voltage Input NX-AD360 A1 INput1+ Input IOV IO IOG IOC INput3+ Inpu IOV IO IOG IO IOG IO	3 2+• 3 • 7 tt4+ V • 7 hree-wit	re sensor	Input + 24 V (Sensor power supply +) 0 V (Sensor power supply – / Input –)
Input disconnection detection	Not supported.				

Analog Input Unit (voltage input type) 4 points NX-AD3603

Unit name	Analog Input Unit (voltage input type)	Model	NX-AD3604		
		External connection	Screwless clamping terminal block (12		
Number of points	4 points	terminals	terminals)		
I/O refreshing method	Free-Run refreshing				
	TS indicator	Input method	Differential Input		
	AD3604	Input range	-10 to +10 V		
		Input conversion range	-5 to 105% (full scale)		
Indicator		Absolute maximum rating	±15 V		
indicator		Input impedance	1 MΩ min.		
		Resolution	1/8000 (full scale)		
		Overall 25°C	±0.2% (full scale)		
		accuracy 0 to 55°C	±0.4% (full scale)		
		Conversion time	250 μs/point		
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Between the input and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between inputs)		
Insulation resistance	20 M Ω min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.		
I/O power supply method	No supply	Current capacity of I/O power supply terminal	Without I/O power supply terminals		
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 1.35 W max. Connected to a Communications Coupler Unit 1.10 W max. 	I/O current consumption	No consumption		
Weight	70 g max.				
Circuit layout	Terminal block $\begin{bmatrix} Input1+ to 4+ \\ Input1- to 4- \\ AG \\ A$				
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communica • Connected to a Communications Couple Restrictions: No restrictions				
Terminal connection diagram	Input1- Input2- Input3+ Input4+ Input3- Input4- AG AG AG AG	nput + nput – d to 0 V of analog circuit inside the Ur e AG terminal normally.	ít.		
Input disconnection detection	Not supported.				

Analog Input Unit (voltage input type) 4 points NX-AD3604

		Medel			2000
Unit name	Analog Input Unit (voltage input type)	Model External co	onnoction	NX-AD	less clamping terminal block (12
Number of points	4 points	terminals		termina	1 8 (
I/O refreshing method	Selectable Synchronous I/O refreshing or F		-	D:#****	atial lagrat
	TS indicator AD3608	Input meth			ntial Input
	AD3008 DTS	Input rang		-10 to	
		•	version range	-5 to 1	05% (full scale)
		Absolute r rating	naximum	±15 V	
Indicator		Input impe	edance	1 MΩ r	min.
		Resolution		1/3000	00 (full scale)
		Overall	25°C	±0.1%	(full scale)
		accuracy	0 to 55°C	±0.2%	(full scale)
		Conversio	n time	10 μs/μ	point
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation n	nethod	= Tran	en the input and the NX bus: Power sformer, Signal = Digital isolator (no on between inputs)
Insulation resistance	20 $M\Omega$ min. between isolated circuits (at 100 VDC)	Dielectric	strength	510 VA	AC between isolated circuits for 1 at a leakage current of 5 mA max.
I/O power supply method	No supply		pacity of I/O	Withou	It I/O power supply terminals
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 1.45 W max. Connected to a Communications Coupler Unit 1.10 W max. 	I/O current	t consumption	No cor	nsumption
Weight	70 g max.				
Circuit layout	Terminal block Input1+ to 4+	↓	NG: Analog circuit inte	() I/O power supply + Connector I/O power supply – (right)
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communications • Connected to a Communications Couple Restrictions: No restrictions				t installation.
Terminal connection diagram				sit.	
Input disconnection detection	Not supported.				
	•				

Analog Input Unit (voltage input type) 4 points NX-AD3608

		1	-
Unit name	Analog Input Unit (voltage input type)	Model	NX-AD4603
Number of points	8 points	External connection terminals	Screwless clamping terminal block (16 terminals)
I/O refreshing method	Free-Run refreshing		
	TS indicator	Input method	Single-ended input
	AD4603	Input range	-10 to +10 V
		Input conversion range	-5 to 105% (full scale)
		Absolute maximum rating	±15 V
Indicator		Input impedance	1 M Ω min.
		Resolution	1/8000 (full scale)
		Overall 25°C	±0.2% (full scale)
		accuracy 0 to 55°C	±0.4% (full scale)
		Conversion time	250 μs/point
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Between the input and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between inputs)
Insulation resistance	20 $M\Omega$ min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.
I/O power supply method	Supply from the NX bus	Current capacity of I/O power supply terminal	IOG: 0.1 A/terminal max.
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 1.45 W max. Connected to a Communications Coupler Unit 1.15 W max. 	I/O current consumption	No consumption
Weight	70 g max.		1
Circuit layout	Terminal block IDG NX bus connector (left) I/O power supply +	AMP AG AG: Analog circuit inte	ernal GND I/O power supply + NX bus connector (right)
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communications • Connected to a Communications Couple Restrictions: No restrictions		
Terminal connection diagram	0000 1000 100 100 100 24 VDC 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100		Input + 24 V (Sensor power supply +) 0 V (Sensor power supply –/ I
Input disconnection detection	Not supported.		

Analog Input Unit (voltage input type) 8 points NX-AD4603

Unit name	Analog Input Unit (voltage input type)	Model	NX-AD4604
Number of points	8 points	External connection	Screwless clamping terminal block (16
-	•	terminals	terminals)
I/O refreshing method	Free-Run refreshing	Differential Input	
	TS indicator AD4604	Input method Input range	Differential Input -10 to +10 V
	DTS	Input conversion range	-5 to 105% (full scale)
		Absolute maximum	
Indicator		rating	±15 V
Indicator		Input impedance	1 MΩ min.
		Resolution	1/8000 (full scale)
		Overall 25°C accuracy 0 to 55°C	$\pm 0.2\%$ (full scale)
		Conversion time	±0.4% (full scale) 250 μs/point
			Between the input and the NX bus: Power
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	= Transformer, Signal = Digital isolator (no isolation between inputs)
Insulation resistance	20 $M\Omega$ min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.
I/O power supply method	No supply	Current capacity of I/O power supply terminal	Without I/O power supply terminals
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 1.45 W max. Connected to a Communications Coupler Unit 1.15 W max. 	I/O current consumption	No consumption
Weight	70 g max.		
Circuit layout	Terminal block Input1+ to 8+ Input1- to 8- S 510 KΩ AG NX bus connector (left) I/O power supply +	AMP 510 KΩ AG AG: Analog circuit inter	I/O power supply + NX bus connector I/O power supply – (right)
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communications • Connected to a Communications Couple Restrictions: No restrictions		
Terminal connection diagram		nput + nput –	
Input disconnection detection	Not supported.		

Analog Input Unit (voltage input type) 8 points NX-AD4604

Unit name		Model		NX-AD	14608
	Analog Input Unit (voltage input type)	External co	opposition		less clamping terminal block (16
Number of points	8 points	terminals		termina	
I/O refreshing method	Selectable Synchronous I/O refreshing or Free-Run refreshing				
	TS indicator AD4608	Input meth			ntial Input
	AD4008 DTS	Input range		-10 to	
		Absolute n	ersion range	-5 to 1	05% (full scale)
Indicator		rating		±15 V	
Indicator		Input impe		1 MΩ r	
		Resolution			00 (full scale)
		Overall	25°C		(full scale)
		-	0 to 55°C		(full scale)
		Conversio	n time	10 μs/μ	
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation m	nethod	= Tran	en the input and the NX bus: Power sformer, Signal = Digital isolator (no on between inputs)
Insulation resistance	20 M Ω min. between isolated circuits (at 100 VDC)	Dielectric	strength		AC between isolated circuits for 1 at a leakage current of 5 mA max.
I/O power supply method	No supply		pacity of I/O ply terminal	Withou	It I/O power supply terminals
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 1.45 W max. Connected to a Communications Coupler Unit 1.15 W max. 	I/O current	consumption	No cor	nsumption
Weight	70 g max.				
Circuit layout	Terminal block Input1+ to 8+ Input1- to 8- S 510 KΩ AG A NX bus connector (left) I/O power supply +	Ļ	G: Analog circuit inter	nal GND () I/O power supply + connector I/O power supply – (right)
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communications • Connected to a Communications Couple Restrictions: No restrictions				t installation.
Terminal connection diagram		ıput + ıput –			
Input disconnection detection	Not supported.				

Analog Input Unit (voltage input type) 8 points NX-AD4608

On it and to its and	Unit name	Analog Input Unit (current input type)	Model	NX-AD2203	
Number of points 2 points Presenture for earling V0 refreshing method Free-Run refreshing Input method Single-ended input Indicator Input method Single-ended input Input method Single-ended input Indicator Input method Single-ended input Input method Single-ended input Indicator Input method Single-ended input Input method Single-ended input Indicator Input method Single-ended input Input method Single-ended input Input imput inage Single-ended input Single-ended input Input method Single-ended input Input inage Single-ended input Single-ended input Input method Single-ended input Input inage Single-ended input Single-ended input Input ended Single-ended input Input inage Single-ended input Single-ended input Input ended Single-ended input Input installation Single-ended input Single-ended input Single-ended input Single-ended input Insulation resistance 10 (W) X 100 (H) X 71 (D) Del					
Indicator FS indicator Indicator Input method Single-ended input input ange Single-ended input input ange Single-ended input input ange Indicator Absolute maximum rating 40.20 mA Bigle-ended input accuracy Single-ended input input impedance 250.02 min. Dimensions 12 (W) × 100 (H) × 71 (D) Solution 18000 (Mill scale) Insulation resistance 20 MQ min. between isolated circuits (at 100 VDC) Deletatic strength Single-ended input isolation between mpuls) Supply method 20 MQ min. between isolated circuits (at 100 VDC) Deletatic strength Single-ended input isolation between mpuls) NX Unit power consumption Connected to a CPU Unit or Communication Control Unit 1.25 W max. Current consumption No consumption NV Unit power and restrictions 70 g max Final Maximum integer and the installation. No consumption Weight 70 g max Installation orientation: Installation orientation: Installation orientation: Add restrictions Installation. Installation. Installation orientation: and restrictions Installation contentation: Installation orientation: Installation orientation: Installation orientation: Installation orientation: Installation orientation: Installation orientation: Installation orientation: Installation orientation: Installation orie	Number of points	2 points			
Indicator AD2203 Input range to 20 mA Input conversion range 3 to 105% (full scale) Adscalute maximum 3 on A Input impedance 250 12 min. Resolution 10000 (full scale) Overall 25° d. 42.5% (full scale) Overall 25° d. 42.5% (full scale) Overall 25° d. 42.5% (full scale) Owerall 26° d. 45% (full scale) Owerall 26° d. 41% Insulation resistance 20 M0 min, between isolated circuits (at Dielectric strength 100 VDC) NX Unit power Supply from the NX bus Commercision Control Unit 0G° out 1 Afterminal max. NX Unit power Connected to a Communications Concered to a Communications Conversion Unit Mediation orientations 100 power supply Installation o	I/O refreshing method				
Indicator Input conversion range Absolute maximum rating -5 to 105% (Uil scale) Indicator -30 mA Input linpedance 250 Q min. Resolution 1/3000 (Uil scale) Overal 25'C 40.2% (Uil scale) Owersion time 250 parbonit Demensions 12 (W) x 100 (H) x 71 (D) Insulation resistance 20 MC min between isolated circuits (at 100 VOC) Vio power supply Supply from the NX bus Vio power supply Single Contract of 5 m max. Vio power supply Connected to a CPU Unit or 1.5 W max. Organ Connected to a CPU Unit or 1.5 W max. Organ at Current consumption NX unit power consumption Connected to a Communications Coupler Unit 1.5 W max. Veight 70 g max. Weight 70 g max. Tessalizion orientation: No task [No power supply] Installation orientation: No task [No power supply] No task [No power supply] No consumption No task [No power supply] No consumption No task [No power supply] No consumption Installation orientation: No task [No power			•	•	
Indicator Absolute maximum =30 mA Indicator Absolute maximum =30 mA Input impedance 250 12 min. Overall 25°C =0.2% (till scale) Overall 25°C =0.4% (till scale) Conversion time 25°C =0.4% (till scale) Dimensions 12 (W) x 100 (H) x 71 (D) isolation method Between the input and the NX bus: Power inclated circuits (at 100 VOG) Insulation resistance 20 M2 min. between isolated circuits (at 100 VOG) Delectric strength StopPy AC Detween inputs) VD power supply Supply from the NX bus Current capacity of VO Detween inputs) OC 0.1 Alterminal max. NX Init power - Connection Control Unit 0 Communication Control Unit 0 Ocensumption NV Dil power supply - Connection Control Unit 0 Ocensumption No consumption Vo grams. - Connection Control Unit 0 Ocensumption No consumption Vo grams. - Connection Control Unit 0 Ocensumption No consumption Veright 70 g max. - Connection Control Unit 0 Ocensumption Installation orientation: - Connection Control Unit 0 - Connection Control Unit 0 - Connection Control Unit 0 Installation orientation: - Connection Control Unit 0 - Connection Control Unit 0 <th></th> <th></th> <th>• •</th> <th></th>			• •		
Indicator rating add mA Input impositing educe 250 mA Resolution 170000 (ull scale) Our rail 25°C 40.25% (ull scale) Our rail 25°C 40.4% (ull scale) Our rail 25°C 40.4% (ull scale) Our rail 25°C 40.4% (ull scale) Dimensions 12 (W) x 100 (H) x 71 (D) Isolation method Envere the input and the NX bus. Power to both the NX bus. Power to both the NX bus. Power to both the NX bus. Power supply Insulation resistance 20 MD min. between isolated circuits (rt 100 VAC between isolated circuits for 1 minute at a leakes current of 5 m max. V0 power supply Supply from the NX bus Current capacity of VO power supply terminal max. NX Unit power • Connected to a CPU Unit or Communication Control Unit 10.90 V/m max. VO current consumption NV Unit power • Connected to a CPU Unit or Communication Control Unit 10.90 V/m max. VO current consumption No consumption • Connected to a CPU Unit or Communication Control Unit 10.90 V/m max. VO current consumption Voide Impact inspective VO power supply Nation Installation orientation: Installation orientation: Installation orientation: • Connected to a CPU Unit or Communication Control Unit: Possible in dorientation: and restrictions: No restrictions: N				-5 to 105% (full scale)	
Imput impedance 20 U mm. Resolution 170000 (full scale) Overal 28*C 40.2% (full scale) accuracy 015 05*C ±0.4% (full scale) Conversion time 250 (µspoint Isulation resistance 200 (µspoint 20 AS (µspoint 250 µspoint Isulation resistance 200 µspoint 20 AS (µspoint 250 µspoint Isulation resistance 200 µspoint 20 AS (µspoint 200 µspoint Vo power supply Supply from the NX bus Ormer supply Supply from the NX bus Connected to a CPU Unit or Communication Control Unit 1.35 W max. Connected to a CPU Unit or Connected to a CPU Unit or Communication OB OW max. Vo power supply Weight 70 g max. Installation orientation: Installation orientation: Installation orientation: Installation Connected to a CPU Unit or Communication Control Unit: Possible in Gorientations. Restrictions: No restrictions Installation orientation: Installation Installation orientation: Ac	Indicator		rating		
Overall acturacy 25°C (0 to 55°C ±0.2% (full scale) Dimensions 12 (W) x 100 (H) x 71 (D) Isolation method Between the put and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between isolated circuits (at 100 VDC) Between the put and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between nputs) NU Only power supply method Supply from the NX bus 0 cornected to a CPU Unit or Communication Control Unit 1.28 W max. Current capacity of I/O power supply terminal IOV C1 A therminal max. NX Unit power consumption • Connected to a CPU Unit or Communication Control Unit 1.28 W max. U/O current consumption No consumption Weight 70 g max. U/O power supply (integration or integration of the put into 20 (integration or integration or integration or integration of the put into 20 (integration or integration integration or integration or integr	Indicator				
accuracy or to 55°C ad.4% (full acale) Dimensions 12 (W) x 100 (H) x 71 (D) Isolation method Between the input and the NX bus: Power - Transform, Signal = Digital isolator (no isolation between isolated circuits (at 0 VD OC) Insulation resistance 20 M2 min. between isolated circuits (at 0 VD OC) Delectric strength 510 VAC Detween isolated circuits for 1 minute at a leadage current of 5 mA max. VD oper supply method Supply from the NX bus Current capacity of V/ power supply terminal 1.26 W max. IOV: 0.1 Alterminal max. NX Unit power consumption - Connected to a CPU Unit or Communication Control Unit 1.26 W max. IOV current consumption No consumption VD ourse in power consumption - Connected to a Communications Coupler Unit 1.26 W max. IVO current consumption No consumption Void up of the power consumption - Connected to a Communications Coupler Unit 1.05 wo max. IVO current consumption No consumption Void up over consumption - Connected to a Communications Coupler Unit 1.05 wo max. IVO current consumption No consumption Installation orientation: and restrictions Installation orientation: - Connected to a CPU Unit or Communication Coupler Unit. Possible in 0 orientations. Restrictions: No restrictions - Connected to a CPU Unit or Communication - Coupler Unit. Possible in 0 orientations. - Connected to a CPU				, ,	
Conversion time 250 µs/point Dimensions 12 (W) × 100 (H) × 71 (D) isolation method Between the pust and the NX bus: Power arransformer, Signal = Digital isolator (no isolation between inputs) Insulation resistance 20 MΩ min. between isolated circuits (at 100 VDC) Delectric strength 100 VDC between isolated circuits for 1 minute at a leakage current of 5 mA max. VO power supply Supply from the NX bus Current capacity of I/U power supply terminal Dielectric strength 100 × 0.1 Afterminal max. NX Unit power consumption 0.00 metable of communications 0.90 W max. Current capacity of I/U power supply terminal No consumption Velight 70 g max. Connected to a CPU Unit or Connected to a CPU Unit or Communication Control Unit: Possible in upright installation. Installation orientation: efficience Installation orientation: (H) power supply - Installation Control Unit: Possible in G orientations. Restrictions: No restrictions Terminal connection and restrictions: No restrictions Additional (H)			Overall	· · · · · ·	
Dimensions 12 (W) x 100 (H) x 71 (D) Isolation method Between the input and the NX bus: Power solation between isolated circuits (at 0 over supply Dimensions Supply from the NX bus Difference Signal = Digital isolator (no solation between isolated circuits (at 0 cover supply Dielectric strength Situ XL Detween isolated circuits or 1 method NX Unit power consumption - Connected to a CPU Unit or Communication Control Unit 1.25 W max. - Connected to a CPU Unit or Connected to a Communications Coupler Unit 0.90 W max. VO current consumption No consumption Weight 70 g max. - Terminal max. VO power supply (imput + 1 + 0.2+ (imput + 1					
Dimensions 12 (W) × 100 (H) × 71 (D) Isolation method Transformer, Signal = Digital isolator (no isolation between isolated circuits (at power supply) Insulation resistance 20 M2 min. between isolated circuits (at power supply) Dielectric strength 510 VAC between isolated circuits (or power supply) implicate at a lackage current of 5 mA max. I/O power supply Supply from the NX bus Current capacity of I/O power supply iterminal IOV: 0.1 Alterminal max., NX Unit power computed • Connected to a CPU Unit or Communication Control Unit 0.30 W max. I/O current consumption IOV: 0.1 Alterminal max., Veight To g max. • Connected to a Communication Control Unit 0.30 W max. I/O current consumption No consumption Circuit layout Installation orientation: Installation orientation: Instol Installation orientation: Instolin the power suppl					
Insultation resistance 100 VDC) Insultation resistance Insult is and resistance Insult is and resistance<	Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	= Transformer, Signal = Digital isolator (no	
method Supply function for NA Dus power supply terminal IOG: 0.1 Afterminal max. NX Unit power consumption Connected to a CPU Unit or Communication Control Unit 1.25 W max. Weight 70 g max. Weight 70 g max. Terminal lock Installation orientation: uo power supply - input for uo input for input for input for uo input for inpu	Insulation resistance		Dielectric strength	minute at a leakage current of 5 mA max.	
NL Unit power consumption Communication Control Unit 1.25 W max. I/O current consumption No consumption Weight 70 g max. Weight 70 g max. Circuit layout Imput time (input + in 2.4 minimized) Imput disconnection Imput disconnection Imput disconnection Imput disconnection Imput disconnection Installation orientation: Imput disconnection Imput disconnection Imput disconnection Imput disconnection Imput disconnection Installation orientation: Imput disconnection Imput disconnection Imput disconnected to the internal circuit.					
Circuit layout Installation orientation: (left) I/O power supply + UO power supply + UO power supply - UO power supply - UC power supply - UO power -	•	Communication Control Unit 1.25 W max. • Connected to a Communications Coupler Unit	I/O current consumption	No consumption	
Circuit layout Imput + to 2+ for for for examply + for for examply + for for examply + for example - for examp	Weight	70 g max.			
Installation orientation and restrictions • Connected to a CPU Unit or Communication Control Unit: Possible in upright installation. • Connected to a Communications Coupler Unit: Possible in 6 orientations. Restrictions: No restrictions Terminal connection diagram	Circuit layout	Terminal block Input1+ to 2+ IOG AG AG: Analog circuit internal GND NX bus connector (det)			
Terminal connection diagram 		 Connected to a CPU Unit or Communication Control Unit: Possible in upright installation. Connected to a Communications Coupler Unit: Possible in 6 orientations. 			
		Power Supply Unit A1 B1 IOV IOV 24 VDC IOV IOV IOV IOV IOG IOG	NX-AD2203 A1B1 Input1+ Input2+ IOV IOV IOV IOV Three-1 IOG IOG	24 V (Sensor power supply +) 0 V (Sensor power supply – / Input –) wire sensor	
		Supported.			

Analog Input Unit (current input type) 2 points NX-AD2203

Unit name	Analog Input Unit (current input type)	Model	NX-AD2204		
		External connection	Screwless clamping terminal block (8		
Number of points	2 points	terminals	terminals)		
I/O refreshing method	Free-Run refreshing				
	TS indicator	Input method	Differential Input		
	AD2204	Input range	4 to 20 mA		
		Input conversion range	-5 to 105% (full scale)		
Indicator		Absolute maximum rating	±30 mA		
indicator		Input impedance	250 Ω min.		
		Resolution	1/8000 (full scale)		
		Overall 25°C	±0.2% (full scale)		
		accuracy 0 to 55°C	±0.4% (full scale)		
		Conversion time	250 µs/point		
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Between the input and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between inputs)		
Insulation resistance	20 M Ω min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.		
I/O power supply method	No supply	Current capacity of I/O power supply terminal	Without I/O power supply terminals		
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 1.25 W max. Connected to a Communications Coupler Unit 0.90 W max. 	I/O current consumption	No consumption		
Weight	70 g max.				
Circuit layout	Terminal block Input1+ to 2+	510 KΩ \$510 KΩ AG: Anali AG	og circuit nal GND 		
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communications • Connected to a Communications Couple Restrictions: No restrictions				
Terminal connection diagram	AG AG NC NC	iput + iput – d to 0 V of analog circuit inside the Ur e AG terminal normally.	ıit.		
Input disconnection detection	Supported.				

Analog Input Unit (current input type) 2 points NX-AD2204

Linit name		Madal	
Unit name	Analog Input Unit (current input type)	Model External connection	NX-AD2208 Screwless clamping terminal block (8
Number of points	2 points	terminals	terminals)
I/O refreshing method	Selectable Synchronous I/O refreshing or F		
	TS indicator	Input method	Differential Input
	AD2208	Input range	4 to 20 mA
		Input conversion range	-5 to 105% (full scale)
Indiantar		Absolute maximum rating	±30 mA
Indicator		Input impedance	250 Ω
		Resolution	1/30000 (full scale)
		Overall 25°C	±0.1% (full scale)
		accuracy 0 to 55°C	±0.2% (full scale)
		Conversion time	10 μs/point
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Between the input and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between inputs)
Insulation resistance	20 $M\Omega$ min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.
I/O power supply method	No supply	Current capacity of I/O power supply terminal	Without I/O power supply terminals
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 1.25 W max. Connected to a Communications Coupler Unit 0.90 W max. 	I/O current consumption	No consumption
Weight	70 g max.		
Circuit layout	Terminal block Input1+ to 2+	510 KΩ \$510 KΩ AG: Anali	og circuit nal GND I/O power supply + I/O power supply – I/O power supply –
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communications • Connected to a Communications Couple Restrictions: No restrictions		
Terminal connection diagram	AG AG NC NC	put + put – d to 0 V of analog circuit inside the Ur a AG terminal normally.	ıit.
Input disconnection detection	Supported.		

Analog Input Unit (current input type) 2 points NX-AD2208

Unit name	Analog Input Unit (current input type)	Model	NX-AD3203
•	4 points	External connection terminals	Screwless clamping terminal block (12 terminals)
	Free-Run refreshing		
	TS indicator	Input method	Single-ended input
	AD3203 ^{DTS}	Input range	4 to 20 mA
		Input conversion range	-5 to 105% (full scale)
Indicator		Absolute maximum rating	±30 mA
Indicator		Input impedance	250 Ω min.
		Resolution	1/8000 (full scale)
		Overall 25°C	±0.2% (full scale)
		accuracy 0 to 55°C	±0.4% (full scale)
		Conversion time	250 μs/point
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Between the input and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between inputs)
	20 $M\Omega$ min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.
I/O power supply method	Supply from the NX bus	Current capacity of I/O power supply terminal	IOV: 0.1 A/terminal max., IOG: 0.1 A/terminal max.
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 1.25 W max. Connected to a Communications Coupler Unit 0.90 W max. 	I/O current consumption	No consumption
Weight	70 g max.		
Circuit layout	Terminal block IOV Input1+ to 4+ IOG NX bus connector (left) I/O power supply + I/O power supply –	AG AG: Analog circuit inte	rnal GND V I/O power supply + NX bus connector (right)
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communica • Connected to a Communications Couple Restrictions: No restrictions		
Terminal connection diagram	Additional I/O Power Supply Unit A1 IOV IOV 24 VDC IOG IOG A8 B8	Current Input Unit NX-AD3203 A1 Input1+ Input2+ IOV IOV IOG IOG Input3+ Input4+ IOV IOV IOG IOG A8 B8	Input + 24 V (Sensor power supply +) 0 V (Sensor power supply – / Input –) ire sensor
Input disconnection detection	Supported.		

Analog Input Unit (current input type) 4 points NX-AD3203

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Unit name	Analog Input Unit (current input type)	Model	NX-AD3204		
Number of points	4 points	External connection terminals	Screwless clamping terminal block (12 terminals)		
I/O refreshing method	Free-Run refreshing				
	TS indicator	Input method	Differential Input		
	AD3204	Input range	4 to 20 mA		
		Input conversion range	-5 to 105% (full scale)		
Indicator		Absolute maximum rating	±30 mA		
indicator		Input impedance	250 Ω min.		
		Resolution	1/8000 (full scale)		
		Overall 25°C	±0.2% (full scale)		
		accuracy 0 to 55°C	±0.4% (full scale)		
		Conversion time	250 µs/point		
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Between the input and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between inputs)		
Insulation resistance	20 $M\Omega$ min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.		
I/O power supply method	No supply	Current capacity of I/O power supply terminal	Without I/O power supply terminals		
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 1.25 W max. Connected to a Communications Coupler Unit 0.90 W max. 	I/O current consumption	No consumption		
Weight	70 g max.				
Circuit layout	Terminal block Input1+ to 4+ AG NX bus connector (left) I/O power supply + I/O power supply –	510 KΩ 510 KΩ AG: Anale inter	og circuit nal GND V/O power supply + NX bus connector (right)		
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communica • Connected to a Communications Couple Restrictions: No restrictions				
Terminal connection diagram	Input1- Input2- Input3+ Input4+ Input3- Input4- AG AG AG AG	nput + nput – d to 0 V of analog circuit inside the U e AG terminal normally.	nit.		
Input disconnection detection	Supported.				
	•				

Analog Input Unit (current input type) 4 points NX-AD3204

Unit name	Analog Input Unit (current input type)	Model	NX-AD3208	
		External connection	Screwless clamping terminal block (12	
Number of points	4 points	terminals	terminals)	
I/O refreshing method	Selectable Synchronous I/O refreshing or Free-Run refreshing			
	TS indicator	Input method	Differential Input	
	AD3208	Input range	4 to 20 mA	
		Input conversion range	-5 to 105% (full scale)	
Indicator		Absolute maximum rating	±30 mA	
indicator		Input impedance	250 Ω min.	
		Resolution	1/30000 (full scale)	
		Overall 25°C	±0.1% (full scale)	
		accuracy 0 to 55°C	±0.2% (full scale)	
		Conversion time	10 μs/point	
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Between the input and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between inputs)	
Insulation resistance	20 M Ω min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.	
I/O power supply method	No supply	Current capacity of I/O power supply terminal	Without I/O power supply terminals	
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 1.30 W max. Connected to a Communications Coupler Unit 0.95 W max. 	I/O current consumption	No consumption	
Weight	70 g max.			
Circuit layout	Terminal block Input1+ to 4+	510 KΩ \$510 KΩ AG: Anal AG	og circuit nal GND I/O power supply + NX bus connector (right)	
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communica • Connected to a Communications Couple Restrictions: No restrictions			
Terminal connection diagram	Input1- Input2- Input3+ Input4+ Input3- Input4- AG AG AG AG	nput + nput – d to 0 V of analog circuit inside the Ur re AG terminal normally.	nit.	
Input disconnection detection	Supported.			
	1			

Analog Input Unit (current input type) 4 points NX-AD3208

Unit name	Analog Input Unit (current input type)	NX-AD4203			
		Model External connection	Screwless clamping terminal block (16		
Number of points	8 points	terminals	terminals)		
I/O refreshing method	Free-Run refreshing				
	TS indicator AD4203	Input method	Single-ended input		
	AD4203 DTS	Input range	4 to 20 mA		
		Input conversion range Absolute maximum	-5 to 105% (full scale)		
Indiantar		rating	±30 mA		
Indicator		Input impedance	85 Ω		
		Resolution	1/8000 (full scale)		
		Overall 25°C	±0.2% (full scale)		
		accuracy 0 to 55°C	±0.4% (full scale)		
		Conversion time	250 μs/point		
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Between the input and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between inputs)		
Insulation resistance	20 M Ω min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.		
I/O power supply method	Supply from the NX bus	Current capacity of I/O power supply terminal	IOV: 0.1 A/terminal max.		
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 1.40 W max. Connected to a Communications Coupler Unit 1.05 W max. 	I/O current consumption	No consumption		
Weight	70 g max.		·		
Circuit layout	Terminal block NX bus connector (left) I/O power supply + I/O power supply - NX bus connector (left) I/O power supply - I/O				
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communication Control Unit: Possible in upright installation. • Connected to a Communications Coupler Unit: Possible in 6 orientations. Restrictions: No restrictions				
Terminal connection diagram	Additional I/O Power Supply Unit A1 0 0 0 0 0 0 0 0 0 0 0 0 0				
Input disconnection detection	Supported.		_		

Analog Input Unit (current input type) 8 points NX-AD4203

Unit name	Analog Input Unit (current input type)	Model	NX-AD4204		
		External connection	Screwless clamping terminal block (16		
Number of points	8 points	terminals	terminals)		
I/O refreshing method	Free-Run refreshing				
	TS indicator	Input method	Differential Input		
	AD4204	Input range	4 to 20 mA		
		Input conversion range	-5 to 105% (full scale)		
		Absolute maximum rating	±30 mA		
Indicator		Input impedance	85 Ω		
		Resolution	1/8000 (full scale)		
		Overall 25°C	±0.2% (full scale)		
		accuracy 0 to 55°C	±0.4% (full scale)		
		Conversion time	250 μs/point		
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Between the input and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between inputs)		
Insulation resistance	20 M Ω min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.		
I/O power supply method	No supply	Current capacity of I/O power supply terminal	Without I/O power supply terminals		
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 1.40 W max. Connected to a Communications Coupler Unit 1.05 W max. 	I/O current consumption	No consumption		
Weight	70 g max.				
Circuit layout	$\begin{array}{c} \text{Terminal block} \begin{bmatrix} \text{Input1+ to 8+} \\ \text{Input1- to 8-} \\ \hline \\ \text{Input1- to 8-} \\ \hline \\ \text{KX bus} \\ \text{connector} \\ (\text{left}) \end{bmatrix} \begin{bmatrix} \text{I/O power supply +} \\ \text{I/O power supply -} \\ \hline \\ \hline \\ \text{I/O power supply -} \\ \hline \\ \hline \\ \text{I/O power supply -} \\ \hline \\ \hline \\ \text{I/O power supply -} \\ \hline \\ \hline \\ \hline \\ \text{I/O power supply -} \\ \hline \\ $				
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communication Control Unit: Possible in upright installation. • Connected to a Communications Coupler Unit: Possible in 6 orientations. Restrictions: No restrictions				
Terminal connection diagram	Current Input Unit NX-AD4204 B1 A1 B1 Input1+ Input2+ Input3+ Input4+ Input5+ Input6+ Input7- Input8+ A8 B8				
Input disconnection detection	Supported.				

Analog Input Unit (current input type) 8 points NX-AD4204

Unit name	Analog Input Unit (current input type)	Model	NX-AD4208		
		External connection	Screwless clamping terminal block (16		
Number of points	8 points	terminals	terminals)		
I/O refreshing method	Selectable Synchronous I/O refreshing or Free-Run refreshing				
	TS indicator	Input method Input range	Differential Input		
	AD4208		4 to 20 mA -5 to 105% (full scale)		
		Input conversion range Absolute maximum			
Indicator		rating	±30 mA		
indicator		Input impedance Resolution	85 Ω 1/30000 (full scale)		
		Overall 25°C	±0.1% (full scale)		
		accuracy 0 to 55°C	$\pm 0.2\%$ (full scale)		
		Conversion time	10 μs/point		
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Between the input and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between inputs)		
Insulation resistance	20 M Ω min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.		
I/O power supply method	No supply	Current capacity of I/O power supply terminal	Without I/O power supply terminals		
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 1.45 W max. Connected to a Communications Coupler Unit 1.10 W max. 	I/O current consumption	No consumption		
Weight	70 g max.				
Circuit layout	$Terminal block \begin{bmatrix} Input1+ to 8+ \\ Input1- to 8- \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ $				
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communication Control Unit: Possible in upright installation. • Connected to a Communications Coupler Unit: Possible in 6 orientations. Restrictions: No restrictions				
Terminal connection diagram	Current Input Unit NX-AD4208 Input + Input1+ Input2+ Input1- Input2- Input3+ Input4+ Input5+ Input6+ Input7+ Input8+ Input7+ Input8+ A8 B8				
Input disconnection detection	Supported.				

Analog Input Unit (current input type) 8 points NX-AD4208

Analog Output Unit Specifications

Analog Output Unit (voltage output type) 2 points NX-DA2603

Unit name	Analog Output Unit (voltage output type)	Model		NX-DA2603	
Number of points	2 points	External connection terminals		Screwless clamping terminal block (8 terminals)	
I/O refreshing method	Free-Run refreshing				
	TS indicator	Output ran	ge	-10 to +10 V	
	DA2603	Output con range	version	-5 to 105% (full scale)	
		Allowable I resistance	load	5 k Ω min.	
Indicator		Output imp	bedance	0.5 Ω max.	
		Resolution	I	1/8000 (full scale)	
		Overall	25°C	±0.3% (full scale)	
		accuracy	0 to 55°C	±0.5% (full scale)	
		Conversion	n time	250 μs/point	
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation m	ethod	Between the input and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between inputs)	
Insulation resistance	20 M Ω min. between isolated circuits (at 100 VDC)	Dielectric s	strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.	
I/O power supply method	Supply from the NX bus		pacity of I/O ply terminal	IOV: 0.1 A/terminal max., IOG: 0.1 A/terminal max.	
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 1.40 W max. Connected to a Communications Coupler Unit 1.10 W max. 	Communication Control Unit 1.40 W max. • Connected to a Communications Coupler Unit			
Weight	70 g max.			•	
Circuit layout	NX bus (left) I/O power supply + I/O power supply - I/O power				
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communication Control Unit: Possible in upright installation. • Connected to a Communications Coupler Unit: Possible in 6 orientations. Restrictions: No restrictions				
Terminal connection diagram	Additional I/O Power Supply Unit A				

Unit name	Analog Output Unit (voltage output type)	Model	NX-DA2605		
		External connection	Screwless clamping terminal block (8		
Number of points	2 points	nts terminals			
I/O refreshing method	Selectable Synchronous I/O refreshing or F		1		
	TS indicator	Output range	-10 to +10 V		
	DA2605	Output conversion range	-5 to 105% (full scale)		
		Allowable load resistance	5 k Ω min.		
Indicator		Output impedance	0.5 Ω max.		
		Resolution	1/30000 (full scale)		
		Overall 25°C	±0.1% (full scale)		
		accuracy 0 to 55°C	±0.3% (full scale)		
		Conversion time	10 μs/point		
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Between the input and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between inputs)		
Insulation resistance	20 M Ω min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.		
I/O power supply method	Supply from the NX bus	Current capacity of I/O power supply terminal	IOV: 0.1 A/terminal max., IOG: 0.1 A/terminal max.		
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 1.40 W max. Connected to a Communications Coupler Unit 1.10 W max. 	I/O current consumption	No consumption		
Weight	70 g max.				
Circuit layout	NX bus connector (left)				
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communication Control Unit: Possible in upright installation. • Connected to a Communications Coupler Unit: Possible in 6 orientations. Restrictions: No restrictions				
Terminal connection diagram	Additional I/O Power Supply Unit A1 B1 I OV IOV 24 VDC A8 B8 B8 A	Voltage Output Unit NX-DA2605 V H V2+ • IOV IOV IOG IOG • NC NC B8	Voltage output +		

Analog Output Unit (voltage output type) 2 points NX-DA2605

		-			
Unit name	Analog Output Unit (voltage output type)	Model	NX-DA3603		
Number of points	4 points	External connection terminalsScrewless clamping terminal block (12 terminals)			
I/O refreshing method	Free-Run refreshing				
	TS indicator	Output range	-10 to +10 V		
	DA3603 ^{DTS}	Output conversion range	-5 to 105% (full scale)		
		Allowable load resistance	5 k Ω min.		
Indicator		Output impedance	0.5 Ω max.		
		Resolution	1/8000 (full scale)		
		Overall 25°C	±0.3% (full scale)		
		accuracy 0 to 55°C	±0.5% (full scale)		
		Conversion time	250 μs/point		
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Between the input and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between inputs)		
Insulation resistance	20 M Ω min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.		
I/O power supply method	Supply from the NX bus	Current capacity of I/O power supply terminal	IOV: 0.1 A/terminal max., IOG: 0.1 A/terminal max.		
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 1.35 W max. Connected to a Communications Coupler Unit 1.25 W max. 	I/O current consumption	No consumption		
Weight	70 g max.				
Circuit layout	NX bus connector (left) I/O power supply +	IOV Output V1+ to V4+ IOG I/O power supply + I/O power supply - NX bus connector (right)			
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communication Control Unit: Possible in upright installation. • Connected to a Communications Coupler Unit: Possible in 6 orientations. Restrictions: No restrictions				
Terminal connection diagram	Additional I/O Power Supply Unit Additional I/O Additional I/O Power Supply Unit Additional I/O Additional I/O Additi				

Analog Output Unit (voltage output type) 4 points NX-DA3603

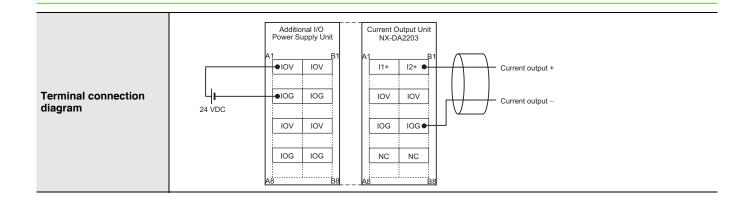
Unit name	Analog Output Unit (voltage output type)	Model	NX-DA3605		
		External connection	Screwless clamping terminal block (12		
Number of points	4 points	terminals)			
I/O refreshing method	Selectable Synchronous I/O refreshing or Free-Run refreshing				
	TS indicator	Output range	-10 to +10 V		
	DA3605	Output conversion range	-5 to 105% (full scale)		
		Allowable load resistance	5 k Ω min.		
Indicator		Output impedance	0.5 Ω max.		
		Resolution	1/30000 (full scale)		
		Overall 25°C	±0.1% (full scale)		
		accuracy 0 to 55°C	±0.3% (full scale)		
		Conversion time	10 μs/point		
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Between the input and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between inputs)		
Insulation resistance	20 M Ω min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.		
I/O power supply method	Supply from the NX bus	Current capacity of I/O power supply terminal	IOV: 0.1 A/terminal max., IOG: 0.1 A/terminal max.		
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 1.60 W max. Connected to a Communications Coupler Unit 1.25 W max. 	I/O current consumption	No consumption		
Weight	70 g max.				
Circuit layout	NX bus connector (left) I/O power supply +	it internal GND AG	IOV Output V1+ to V4+ IOG I/O power supply + I/O power supply - I/O power supply -		
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communication Control Unit: Possible in upright installation. • Connected to a Communications Coupler Unit: Possible in 6 orientations. Restrictions: No restrictions				
Terminal connection diagram	Additional I/O Power Supply Unit A1 B1 I OV IOV 24 VDC IOG IOG A8 B8 A A	Voltage Output Unit NX-DA3605 1 B1 V1+ V2+ IOV IOV IOG IOG V3+ V4+ IOV IOV IOG IOG 8 B8	Voltage output +		

Analog Output Unit (voltage output type) 4 points NX-DA3605

Unit name	Analog Output Unit (current output type)	Model	NX-DA2203		
Number of points	2 points	External connection terminals	Screwless clamping terminal block (8 terminals)		
I/O refreshing method	Free-Run refreshing				
	TS indicator	Output range	4 to 20 mA		
	DA2203	Output conversion range	-5 to 105% (full scale)		
Indicator		Allowable load resistance	600 Ω min.		
		Resolution	1/8000 (full scale)		
		Overall 25°C	±0.3% (full scale)		
		accuracy 0 to 55°C	±0.6% (full scale)		
		Conversion time	250 μs/point		
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Between the input and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between inputs)		
Insulation resistance	20 M Ω min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.		
I/O power supply method	Supply from the NX bus	Current capacity of I/O power supply terminal	IOV: 0.1 A/terminal max., IOG: 0.1 A/terminal max.		
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 2.10 W max. Connected to a Communications Coupler Unit 1.75 W max. 	I/O current consumption	No consumption		
Weight	70 g max.				
Circuit layout	NX bus connector (left) I/O power supply +	uit internal GND	IOV Output I1+ to I2+ IOG I/O power supply + I/O power supply - NX bus connector (right)		
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communication Control Unit: Possible in upright installation. • Connected to a Communications Coupler Unit: Possible in 6 orientations. Restrictions: For upright installation: No restrictions For any installation other than upright: Restricted as shown in the graph below. • (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c				

Analog Output Unit (current output type) 2 points NX-DA2203

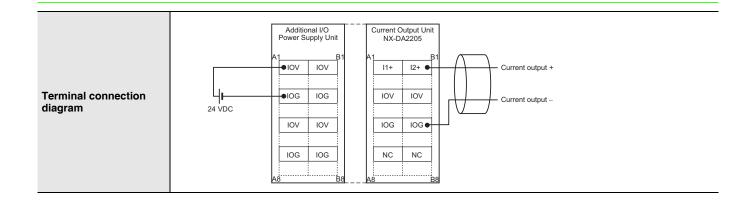
NX-AD/DA



Unit nome	Apples Output Lipit (ourrent output type)	Madal	NX-DA2205		
Unit name	Analog Output Unit (current output type)	Model External connection	Screwless clamping terminal block (8		
Number of points	2 points	terminals	terminals)		
I/O refreshing method	Selectable Synchronous I/O refreshing or F				
	TS indicator	Output range	4 to 20 mA		
	DA2205	Output conversion range	-5 to 105% (full scale)		
Indicator		Allowable load resistance	600 Ω min.		
		Resolution	1/30000 (full scale)		
		Overall 25°C	±0.1% (full scale)		
		accuracy 0 to 55°C	±0.3% (full scale)		
		Conversion time	10 μs/point		
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Between the input and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between inputs)		
Insulation resistance	20 M Ω min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.		
I/O power supply method	Supply from the NX bus	Current capacity of I/O power supply terminal	IOV: 0.1 A/terminal max., IOG: 0.1 A/terminal max.		
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 2.10 W max. Connected to a Communications Coupler Unit 1.75 W max. 	I/O current consumption	No consumption		
Weight	70 g max.				
Circuit layout	NX bus connector (left) I/O power supply +	uit internal GND AG	IOV Output I1+ to I2+ IOG I/O power supply + I/O power supply - I/O power supply – I/O power supply –		
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communication Control Unit: Possible in upright installation. • Connected to a Communications Coupler Unit: Possible in 6 orientations. Restrictions: For upright installation: No restrictions For any installation other than upright: Restricted as shown in the graph below. () () () () () () () () () ()				

Analog Output Unit (current output type) 2 points NX-DA2205

NX-AD/DA



Unit name	Analog Output Unit (current output type)	Model	NX-DA3203		
Number of points	4 points	External connection terminals	Screwless clamping terminal block (12 terminals)		
I/O refreshing method	Free-Run refreshing				
	TS indicator	Output range	4 to 20 mA		
	DA3203	Output conversion range	-5 to 105% (full scale)		
Indicator		Allowable load resistance	350 Ω min.		
		Resolution	1/8000 (full scale)		
		Overall 25°C	±0.3% (full scale)		
		accuracy 0 to 55°C	±0.6% (full scale)		
		Conversion time	250 μs/point		
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Between the input and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between inputs)		
Insulation resistance	20 M Ω min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.		
I/O power supply method	Supply from the NX bus	Current capacity of I/O power supply terminal	IOV: 0.1 A/terminal max., IOG: 0.1 A/terminal max.		
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 2.10 W max. Connected to a Communications Coupler Unit 1.80 W max. 	I/O current consumption	No consumption		
Weight	70 g max.				
Circuit layout	NX bus connector (left) I/O power supply -	AMP Control of the second seco	IOV Output I1+ to I4+ IOG I/O power supply + I/O power supply - I/O power supply - I/O power supply -		
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communication Control Unit: Possible in upright installation. • Connected to a Communications Coupler Unit: Possible in 6 orientations. Restrictions: For upright installation: No restrictions For any installation other than upright: Restricted as shown in the graph below. (a) (b) (c) (c) (c) (c) (c) (c) (c) (c				

Analog Output Unit (current output type) 4 points NX-DA3203

NX-AD/DA

Terminal connection diagram	24 VDC	Power Supply Unit A1B1A1 ●IOV IOVI —IOQ IOGI IOV IOVI IOG IOGI	ant Output Unit IX-DA3203 B1 I+ I2+ V IOV OG IOG B+ I4+ OV IOG IOG	Current output + Current output –	
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Unit name	Appleg Output Lipit (ourrept output type)	Model	NX-DA3205		
Unit name	Analog Output Unit (current output type)	Model External connection	Screwless clamping terminal block (12		
Number of points	4 points	terminals	terminals)		
I/O refreshing method	Selectable Synchronous I/O refreshing or Free-Run refreshing				
	TS indicator	Output range	4 to 20 mA		
	DA3205	Output conversion range	-5 to 105% (full scale)		
Indicator		Allowable load resistance	350 Ω min.		
		Resolution	1/30000 (full scale)		
		Overall 25°C	±0.1% (full scale)		
		accuracy 0 to 55°C	±0.3% (full scale)		
		Conversion time	10 μs/point		
Dimensions	12 (W) x 100 (H) x 71 (D)	Isolation method	Between the input and the NX bus: Power = Transformer, Signal = Digital isolator (no isolation between inputs)		
Insulation resistance	20 M Ω min. between isolated circuits (at 100 VDC)	Dielectric strength	510 VAC between isolated circuits for 1 minute at a leakage current of 5 mA max.		
I/O power supply method	Supply from the NX bus	Current capacity of I/O power supply terminal	IOV: 0.1 A/terminal max., IOG: 0.1 A/terminal max.		
NX Unit power consumption	 Connected to a CPU Unit or Communication Control Unit 2.10 W max. Connected to a Communications Coupler Unit 1.80 W max. 	I/O current consumption	No consumption		
Weight	70 g max.				
Circuit layout	NX bus connector (left) I/O power supply + I/O power supply –	uit internal GND	IOV Output I1+ to I4+ IOG I/O power supply + I/O power supply - NX bus connector (right)		
Installation orientation and restrictions	Installation orientation: • Connected to a CPU Unit or Communication Control Unit: Possible in upright installation. • Connected to a Communications Coupler Unit: Possible in 6 orientations. Restrictions: For upright installation: No restrictions For any installation other than upright: Restricted as shown in the graph below. (a) (b) (c) (c) (c) (c) (c) (c) (c) (c				

Analog Output Unit (current output type) 4 points NX-DA3205

NX-AD/DA

Terminal connection diagram	24 VDC	Additional I/O Power Supply Unit A1B1 ●IOV IOV ■IOG IOG IOV IOV IOG IOG A8B8	Current Output Unit NX-DA3205 A1 B1 I1+ I2+ • IOV IOV IOG IOG I3+ I4+ IOV IOV IOG IOG A8 B8	Current output + Current output –
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Version Information

Connected to a CPU Unit

Refer to the user's manual for the CPU Unit details on the CPU Units to which NX Units can be connected.

NX Unit		Corresponding unit versions/versions		
Model	Unit version	CPU Unit	Sysmac Studio	
NX-AD	Ver.1.0	Ver.1.13	Ver.1.17	

Note: Some Units do not have all of the versions given in the above table. If a Unit does not have the specified version, support is provided by the oldest available version after the specified version. Refer to the user's manuals for the specific Units for the relation between models and versions.

Connected to an EtherCAT Coupler Unit

1	NX Unit	Corresponding unit versions/versions			
Model	Unit version	EtherCAT Coupler Unit	CPU Unit or Industrial PC	Sysmac Studio	
NX-AD	Ver.1.0	Ver.1.0	Ver.1.05	Ver.1.06	

Note: Some Units do not have all of the versions given in the above table. If a Unit does not have the specified version, support is provided by the oldest available version after the specified version. Refer to the user's manuals for the specific Units for the relation between models and versions.

Connected to an EtherNet/IP Coupler Unit

NX Unit	t	Corresponding unit			it versions/versions		
		Application with an NJ/NX/NY-series Controller *1			Application with a CS/CJ/CP-series PLC *2		
Model	Unit version			EtherNet/IP Coupler Unit	Sysmac Studio	NX-IO Configurator *3	
NX-AD	Ver. 1.0	Ver. 1.2	Ver. 1.14	Ver. 1.19	Ver. 1.0	Ver. 1.10	Ver. 1.00

Note: Some Units do not have all of the versions given in the above table. If a Unit does not have the specified version, support is provided by the oldest available version after the specified version. Refer to the user's manuals for the specific Units for the relation between models and versions.

*1 Refer to the user's manual for the EtherNet/IP Coupler Units for information on the unit versions of EtherNet/IP Units that are compatible with EtherNet/IP Coupler Units.

*2 Refer to the user's manual for the EtherNet/IP Coupler Units for information on the unit versions of CPU Units and EtherNet/IP Units that are compatible with EtherNet/IP Coupler Units.

*3 For connection to an EtherNet/IP Coupler Unit with unit version 1.0, connection is supported only for a connection to the peripheral USB port on the EtherNet/IP Coupler Unit. You cannot connect by any other path. If you need to connect by another path, use an EtherNet/IP Coupler Unit with unit version 1.2 or later.

Connected to Communication Control Units

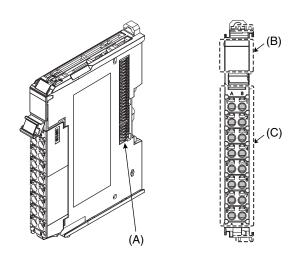
NX Unit		Corresponding unit versions/versions		
Model	Unit version	Communication Control Unit	Sysmac Studio	
NX-AD	Ver.1.0	Ver.1.00	Ver.1.24	

Note: Some Units do not have all of the versions given in the above table. If a Unit does not have the specified version, support is provided by the oldest available version after the specified version. Refer to the user's manuals for the specific Units for the relation between models and versions.

External Interface

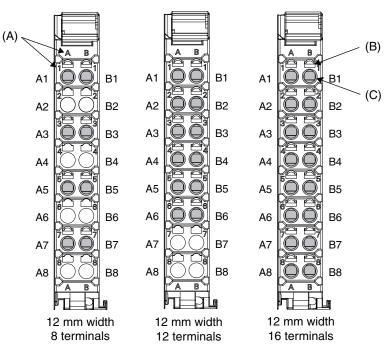
Screwless Clamping Terminal Block Type

12 mm Width



Letter	Item	Specification			
(A)	NX bus connector	This connector is used to connect to another Unit.			
(B)	Indicators	The indicators show the current operating status of the Unit.			
(C)	Terminal block	The terminal block is used to connect to external devices. The number of terminals depends on the Unit.			

Terminal Blocks



Letter	Item	Specification
(A)	Terminal number indication	The terminal number is identified by a column (A through D) and a row (1 through 8). Therefore, terminal numbers are written as a combination of columns and rows, A1 through A8 and B1 through B8. The terminal number indication is the same regardless of the number of terminals on the terminal block.
(B)	Release hole	A flat-blade screwdriver is inserted here to attach and remove the wiring.
(C)	Terminal hole	The wires are inserted into these holes.

Applicable Terminal Blocks for Each Unit Model

	Terminal Blocks						
Unit model	Model	No. of terminals	Terminal number indications	Ground terminal mark	Terminal current capacity		
NX-AD2	NX-TBA082	8	A/B	None	10 A		
NX-AD3	NX-TBA122	12	A/B	None	10 A		
NX-AD4	NX-TBA162	16	A/B	None	10 A		
NX-DA2	NX-TBA082	8	A/B	None	10 A		
NX-DA3	NX-TBA122	12	A/B	None	10 A		

Applicable Wires

Using Ferrules

If you use ferrules, attach the twisted wires to them.

Observe the application instructions for your ferrules for the wire stripping length when attaching ferrules.

Always use plated one-pin ferrules. Do not use unplated ferrules or two-pin ferrules.

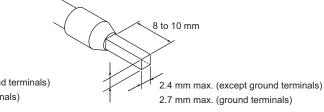
The applicable ferrules, wires, and crimping tool are given in the following table.

Terminal type	Manufacturer	Ferrule model	Applicable wire (mm ² (AWG))	Crimping tool
Terminals other	Phoenix Contact	AI0,34-8	0.34 (#22)	Phoenix Contact (The figure in parentheses is the applicable wire size.)
than ground terminals		AI0,5-8	0.5 (#20)	CRIMPFOX 6 (0.25 to 6 mm ² , AWG24 to 10)
leminais	arminais	Al0,5-10	1	
		AI0,75-8	0.75 (#18)	
		AI0,75-10	1	
		AI1,0-8	1.0 (#18)	
		AI1,0-10	1	
		AI1,5-8	1.5 (#16)	
		AI1,5-10		
Ground terminals		Al2,5-10	2.0 *	
Terminals other	Weidmuller	H0.14/12	0.14 (#26)	Weidmuller (The figure in parentheses is the applicable wire size.)
than ground terminals		H0.25/12	0.25 (#24)	PZ6 Roto (0.14 to 6 mm ² , AWG 26 to 10)
terminals		H0.34/12	0.34 (#22)	
		H0.5/14	0.5 (#20)	
		H0.5/16		
		H0.75/14	0.75 (#18)	
		H0.75/16		
		H1.0/14	1.0 (#18)	
		H1.0/16		
		H1.5/14	1.5 (#16)	
		H1.5/16		

* Some AWG 14 wires exceed 2.0 mm² and cannot be used in the screwless clamping terminal block.

When you use any ferrules other than those in the above table, crimp them to the twisted wires so that the following processed dimensions are achieved.

Finished Dimensions of Ferrules



1.6 mm max. (except ground terminals)2.0 mm max. (ground terminals)

Using Twisted Wires/Solid Wires

If you use the twisted wires or the solid wires, use the following table to determine the correct wire specifications.

Terminals		Wire type					O an darate a la math	
Terminais		Twisted wires		Solid wire		Wire size	Conductor length (stripping length)	
Classification	Current capacity	Plated	Unplated	Plated	Unplated		(on pping longin)	
	2 A or less		Possible	Possible	Possible		8 to 10 mm	
All terminals except ground terminals	Greater than 2 A and 4 A or less	Possible	Not	Possible *1	Not	0.08 to 1.5 mm ² AWG28 to 16		
ground terminals	Greater than 4 A	Possible *1	Possible	Not Possible	Possible			
Ground terminals		Possible	Possible	Possible *2	Possible *2	2.0 mm ²	9 to 10 mm	

*1. Secure wires to the screwless clamping terminal block. Refer to the Securing Wires in the USER'S MANUAL for how to secure wires. *2. With the NX-TB___1 Terminal Block, use twisted wires to connect the ground terminal. Do not use a solid wire.

Conductor length (stripping length)

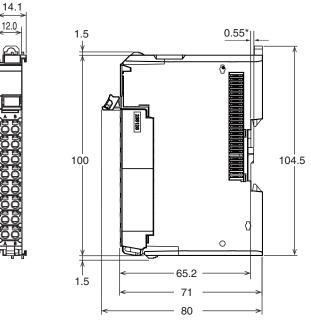
<Additional Information> If more than 2 A will flow on the wires, use plated wires or use ferrules.

(Unit/mm)

Dimensions

Screwless Clamping Terminal Block Type

12 mm Width



* The dimension is 1.35 mm for Units with lot numbers through December 2014.

Related Manual

Cat. No.	Model number	Manual name	Application	Description
W522	NX-AD			The hardware, setup methods, and functions of the NX-series Analog Input Units and Analog Output Units are described.

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