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NX-series Analog Output Unit

# NX-DA

CSM_NX-DA_DS_E_1_1

## Wide Lineup to Meet Various Analog Control Needs: from High-speed Synchronous Control to General Purpose

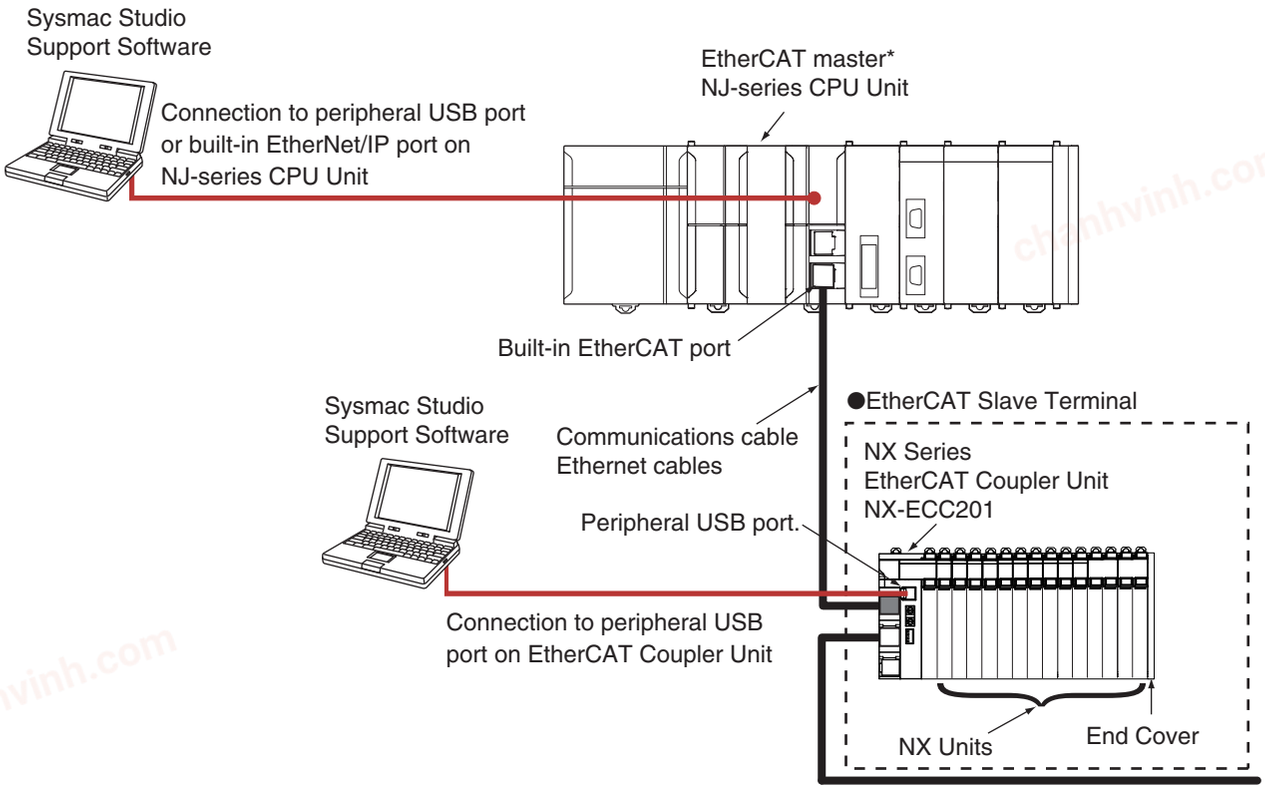
- NX-series Analog Output Unit
- This unit can be used as an ECAT slave by connecting with the ECAT Coupler.
- Voltage and current output models are available.



## Features

- Output up to four analog signals with one Unit.
- Free-run refreshing or I/O synchronous refreshing can be selected for refreshing with the EtherCAT Coupler Unit.
- The lineup includes the model which achieves sampling speed of 10 μs and resolution of 1/30000, ideal for high-speed, high-precision control.
- The removable screwless terminal block improves maintenance.
- Screw-less clamp terminal block significantly reduces wiring work.
- 12-mm-wide unit can save space.

## System Configuration




* OMRON CJ1W-NC□81/□82 Position Control Units cannot be connected to the EtherCAT Slave Terminal even though they support EtherCAT.

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# Ordering Information

## International Standards

- The standards are abbreviated as follows: U: UL, U1: UL (Class I Division 2 Products for Hazardous Locations), C: CSA, UC: cULus, UC1: cULus (Class I Division 2 Products for Hazardous Locations), CU: cUL, N: NK, L: Lloyd, CE: EC Directives,and KC: KC Registration.
- Contact your OMRON representative for further details and applicable conditions for these standards.

## Analog Output Unit

| Unit type | Product Name | Specification | | | | | | | NX Unit power consumption | Model | Standards |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Capacity | Input range | Resolution | Output setting value, decimal number (0 to 100%) | Over all accuracy (25°C) | Conversion time | I/O refreshing method | | | |
| NX Series Analog Output Unit | Voltage Output Unit  | 2 points | -10 to +10V | 1/8000 | -4000 to 4000 | ±0.3% (full scale) | 250 µs/point | Free-Run refreshing | 1.10W max. | **NX-DA2603** | UC1,CE,KC |
| | | | | 1/30000 | -15000 to 15000 | ±0.1% (full scale) | 10 µs/point | Switching Synchronous I/O refreshing and Free-Run refreshing | 1.10W max. | **NX-DA2605** | |
| | | 4 points | | 1/8000 | -4000 to 4000 | ±0.3% (full scale) | 250 µs/point | Free-Run refreshing | 1.25W max. | **NX-DA3603** | |
| | | | | 1/30000 | -15000 to 15000 | ±0.1% (full scale) | 10 µs/point | Switching Synchronous I/O refreshing and Free-Run refreshing | 1.25W max. | **NX-DA3605** | |
| | Current Output Unit  | 2 points | 4 to 20mA | 1/8000 | 0 to 8000 | ±0.3% (full scale) | 250 µs/point | Free-Run refreshing | 1.75W max. | **NX-DA2203** | |
| | | | | 1/30000 | 0 to 30000 | ±0.1% (full scale) | 10 µs/point | Switching Synchronous I/O refreshing and Free-Run refreshing | 1.75W max. | **NX-DA2205** | |
| | | 4 points | | 1/8000 | 0 to 8000 | ±0.3% (full scale) | 250 µs/point | Free-Run refreshing | 1.80W max. | **NX-DA3203** | |
| | | | | 1/30000 | 0 to 30000 | ±0.1% (full scale) | 10 µs/point | Switching Synchronous I/O refreshing and Free-Run refreshing | 1.80W max. | **NX-DA3205** | |

## Option

| Product Name | Specification | Model | Standards |
|---|---|---|---|
| **Cording Pins** | For 10 Units<br>(Terminal Block: 30 pins, Unit: 30 pins) | **NX-AUX02** | --- |

## Accessories

Not included.

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## General Specification

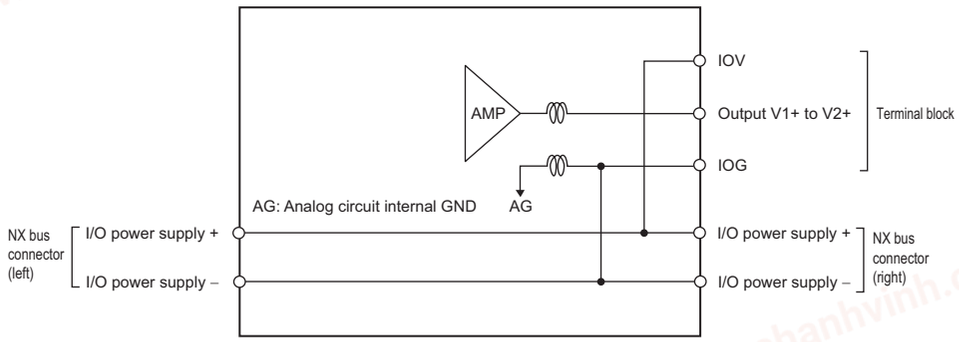
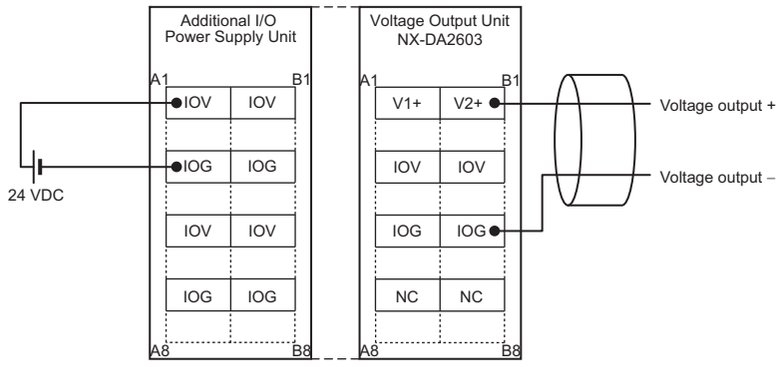
| Item | | Specification |
|---|---|---|
| Enclosure | | Mounted in a panel |
| Grounding method | | Ground to 100 Ω or less |
| Operating environment | Ambient operating temperature | 0 to 55°C |
| | Ambient operating humidity | 10% to 95% (with no condensation or icing) |
| | Atmosphere | Must be free 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: Conforms to JIS B3502 and IEC 61131-2. |
| | Noise immunity | 2 kV on power supply line (Conforms to IEC61000-4-4.) |
| | Overvoltage category | Category II: Conforms to JIS B3502 and IEC 61131-2. |
| | EMC immunity level | Zone B |
| | Vibration resistance | Conforms to IEC 60068-2-6.<br>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<br>(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 and ANSI/ISA 12.12.01<br>EC: EN 61131-2 and C-Tick, KC Registration |

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# Analog Output Unit Specifications

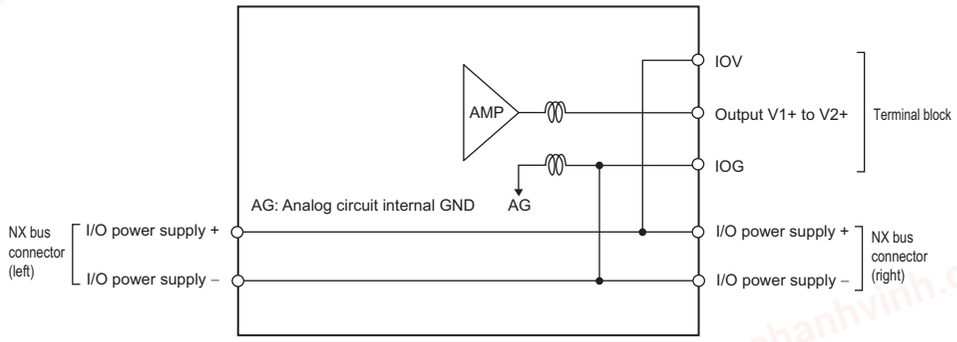
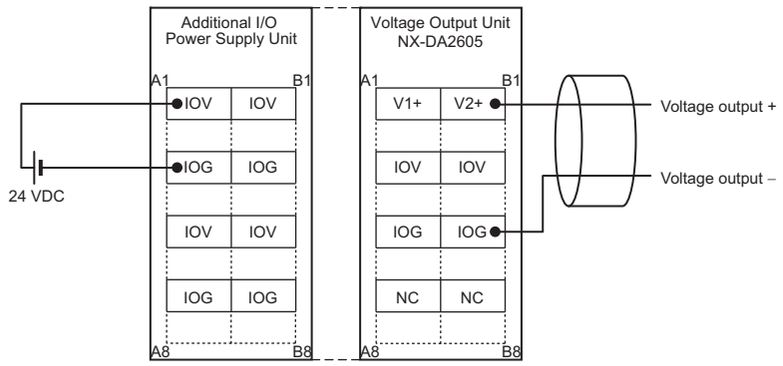
## Voltage Output Unit 2points NX-DA2603

| | | | | |
|---|---|---|---|---|
| **Unit name** | Voltage Output Unit | **Model** | | NX-DA2603 |
| **Capacity** | 2 points | **External connection terminals** | | Screwless clamping terminal block (8 terminals) |
| **I/O refreshing method** | Free-Run refreshing | | | |
| **Indicator** | TS indicator   | **Output range** | | -10 to +10 V |
| | | **Output conversion range** | | -5 to 105% (full scale) |
| | | **Allowable load resistance** | | 5 kΩ min. |
| | | **Output impedance** | | 0.5 Ω max. |
| | | **Resolution** | | 1/8000 (full scale) |
| | | **Overall accuracy** | **25°C** | ±0.3% (full scale) |
| | | | **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 MΩ 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.,<br>IOG: 0.1 A/terminal max. |
| **NX Unit power consumption** | 1.10 W max. | **I/O current consumption** | | No consumption |
| **Weight** | 70 g max. | | | |
| **Circuit layout** |   | | | |
| **Installation orientation and restrictions** | Installation orientation: Possible in 6 orientations.<br>Restrictions: No restrictions | | | |
| **Terminal connection diagram** |   | | | |

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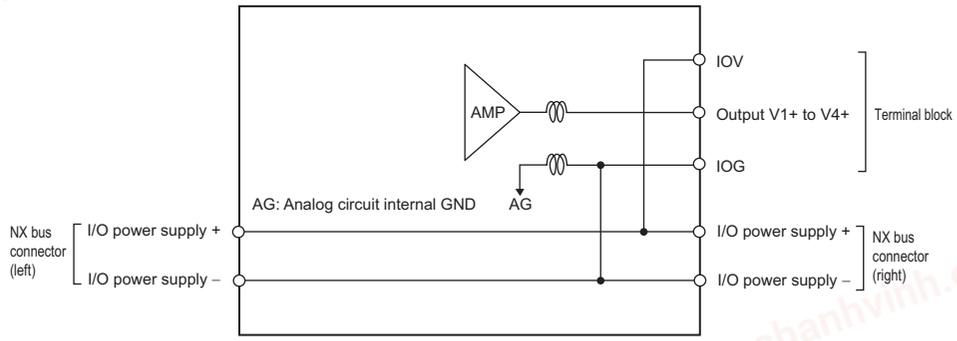
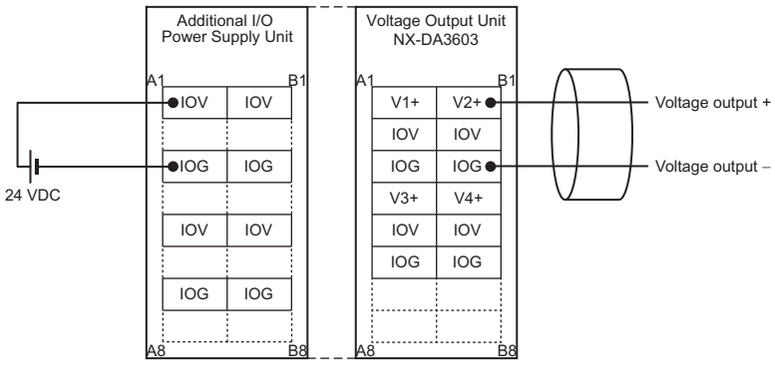
## Voltage Output Unit 2points NX-DA2605

| | | | | |
|---|---|---|---|---|
| **Unit name** | Voltage Output Unit | **Model** | | NX-DA2605 |
| **Capacity** | 2 points | **External connection terminals** | | Screwless clamping terminal block (8 terminals) |
| **I/O refreshing method** | Switching Synchronous I/O refreshing and Free-Run refreshing | | | |
| **Indicator** | TS indicator   | **Output range** | | -10 to +10 V |
| | | **Output conversion range** | | -5 to 105% (full scale) |
| | | **Allowable load resistance** | | 5 kΩ min. |
| | | **Output impedance** | | 0.5 Ω max. |
| | | **Resolution** | | 1/30000 (full scale) |
| | | **Overall accuracy** | **25°C** | ±0.1% (full scale) |
| | | | **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 MΩ 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.,<br>IOG: 0.1 A/terminal max. |
| **NX Unit power consumption** | 1.10 W max. | **I/O current consumption** | | No consumption |
| **Weight** | 70 g max. | | | |
| **Circuit layout** |   | | | |
| **Installation orientation and restrictions** | Installation orientation: Possible in 6 orientations.<br>Restrictions: No restrictions | | | |
| **Terminal connection diagram** |   | | | |

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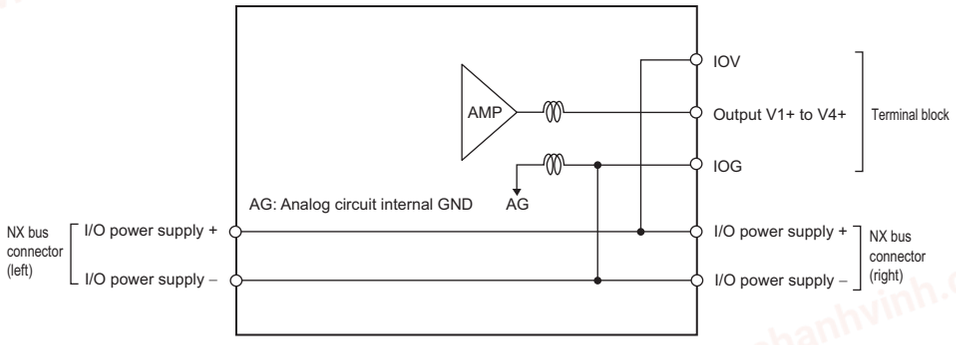
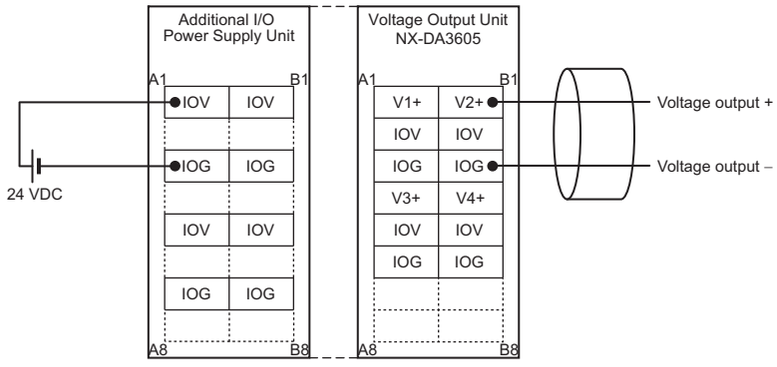
## Voltage Output Unit 4points NX-DA3603

| | | | | |
|---|---|---|---|---|
| **Unit name** | Voltage Output Unit | **Model** | | NX-DA3603 |
| **Capacity** | 4 points | **External connection terminals** | | Screwless clamping terminal block (12 terminals) |
| **I/O refreshing method** | Free-Run refreshing | | | |
| **Indicator** | TS indicator   | **Output range** | | -10 to +10 V |
| | | **Output conversion range** | | -5 to 105% (full scale) |
| | | **Allowable load resistance** | | 5 kΩ min. |
| | | **Output impedance** | | 0.5 Ω max. |
| | | **Resolution** | | 1/8000 (full scale) |
| | | **Overall accuracy** | **25°C** | ±0.3% (full scale) |
| | | | **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 MΩ 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.,<br>IOG: 0.1 A/terminal max. |
| **NX Unit power consumption** | 1.25 W max. | **I/O current consumption** | | No consumption |
| **Weight** | 70 g max. | | | |
| **Circuit layout** |   | | | |
| **Installation orientation and restrictions** | Installation orientation: Possible in 6 orientations.<br>Restrictions: No restrictions | | | |
| **Terminal connection diagram** |   | | | |

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## Voltage Output Unit 4points NX-DA3605

| | | | | |
|---|---|---|---|---|
| **Unit name** | Voltage Output Unit | **Model** | | NX-DA3605 |
| **Capacity** | 4 points | **External connection terminals** | | Screwless clamping terminal block (12 terminals) |
| **I/O refreshing method** | Switching Synchronous I/O refreshing and Free-Run refreshing | | | |
| **Indicator** | TS indicator   | **Output range** | | -10 to +10 V |
| | | **Output conversion range** | | -5 to 105% (full scale) |
| | | **Allowable load resistance** | | 5 kΩ min. |
| | | **Output impedance** | | 0.5 Ω max. |
| | | **Resolution** | | 1/30000 (full scale) |
| | | **Overall accuracy** | **25°C** | ±0.1% (full scale) |
| | | | **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 MΩ 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.,<br>IOG: 0.1 A/terminal max. |
| **NX Unit power consumption** | 1.25 W max. | **I/O current consumption** | | No consumption |
| **Weight** | 70 g max. | | | |
| **Circuit layout** |   | | | |
| **Installation orientation and restrictions** | Installation orientation: Possible in 6 orientations.<br>Restrictions: No restrictions | | | |
| **Terminal connection diagram** |   | | | |

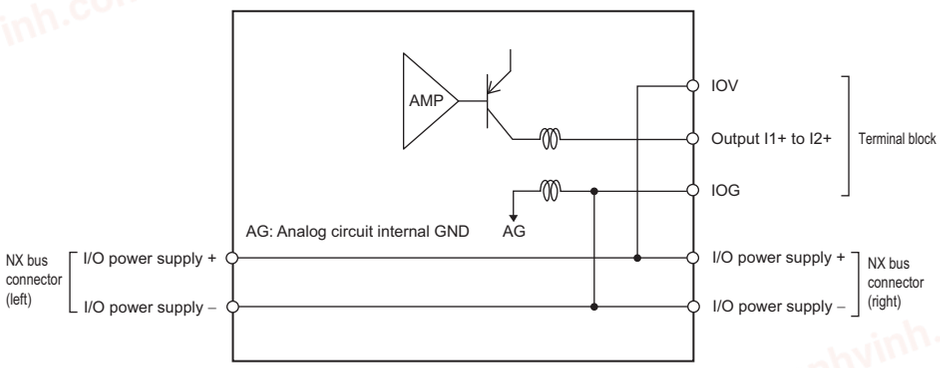
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## Current Output Unit 2points NX-DA2203

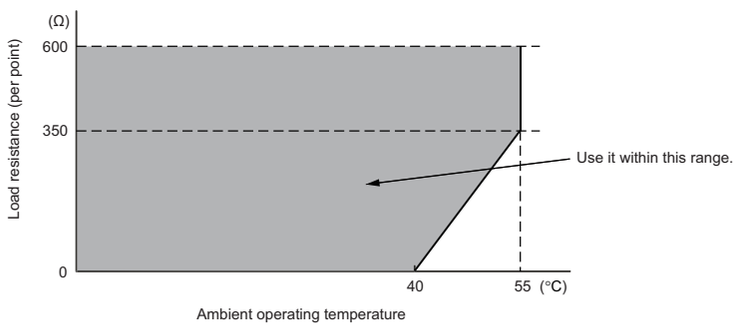
| | | | | |
|---|---|---|---|---|
| **Unit name** | Current Output Unit | **Model** | | NX-DA2203 |
| **Capacity** | 2 points | **External connection terminals** | | Screwless clamping terminal block (8 terminals) |
| **I/O refreshing method** | Free-Run refreshing | | | |
| **Indicator** | TS indicator   | **Output range** | | 4 to 20 mA |
| | | **Output conversion range** | | -5 to 105% (full scale) |
| | | **Allowable load resistance** | | 600 Ω min. |
| | | **Resolution** | | 1/8000 (full scale) |
| | | **Overall accuracy** | **25°C** | ±0.3% (full scale) |
| | | | **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 MΩ 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.,<br>IOG: 0.1 A/terminal max. |
| **NX Unit power consumption** | 1.75 W max. | **I/O current consumption** | | No consumption |
| **Weight** | 70 g max. | | | |

**Circuit layout**

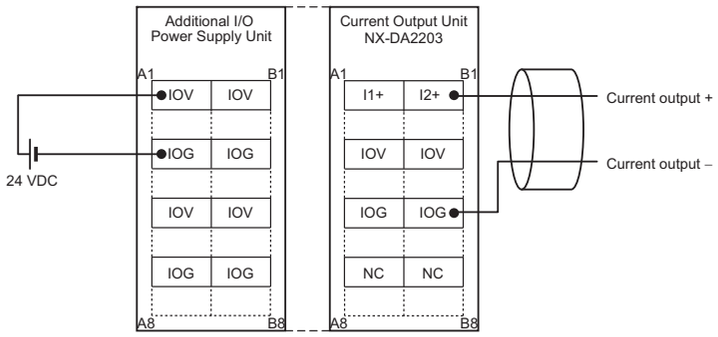



**Installation orientation and restrictions**

Installation orientation: Possible in 6 orientations.
Restrictions:
For upright installation: No restrictions
For any installation other than upright: Restricted as shown in the graph below.




**Terminal connection diagram**



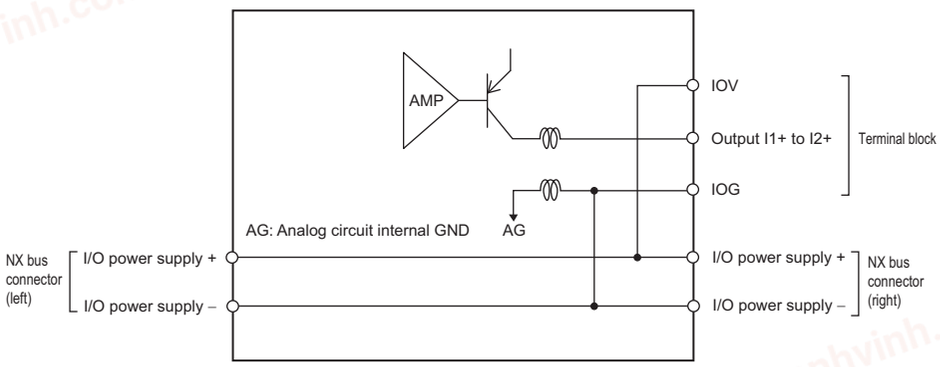
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## Current Output Unit 2points NX-DA2205

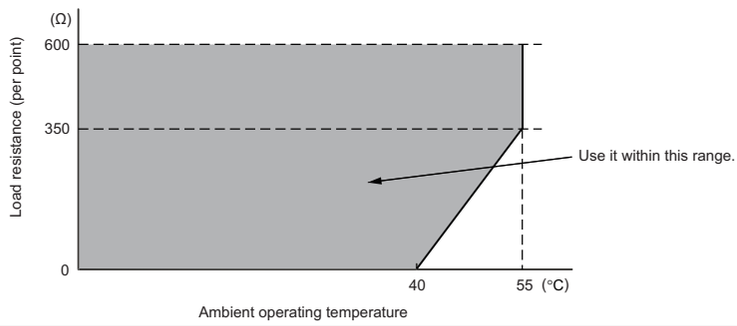
| | | | | |
|---|---|---|---|---|
| **Unit name** | Current Output Unit | **Model** | | NX-DA2205 |
| **Capacity** | 2 points | **External connection terminals** | | Screwless clamping terminal block (8 terminals) |
| **I/O refreshing method** | Switching Synchronous I/O refreshing and Free-Run refreshing | | | |
| **Indicator** | TS indicator   | **Output range** | | 4 to 20 mA |
| | | **Output conversion range** | | -5 to 105% (full scale) |
| | | **Allowable load resistance** | | 600 Ω min. |
| | | **Resolution** | | 1/30000 (full scale) |
| | | **Overall accuracy** | **25°C** | ±0.1% (full scale) |
| | | | **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 MΩ 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.,<br>IOG: 0.1 A/terminal max. |
| **NX Unit power consumption** | 1.75 W max. | **I/O current consumption** | | No consumption |
| **Weight** | 70 g max. | | | |

**Circuit layout**

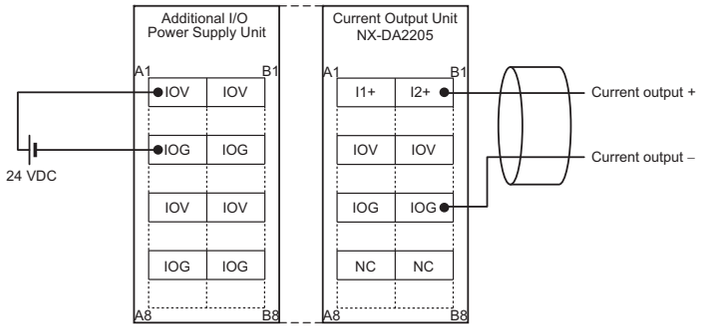



**Installation orientation and restrictions**

Installation orientation: Possible in 6 orientations.
Restrictions:
For upright installation: No restrictions
For any installation other than upright: Restricted as shown in the graph below.




**Terminal connection diagram**



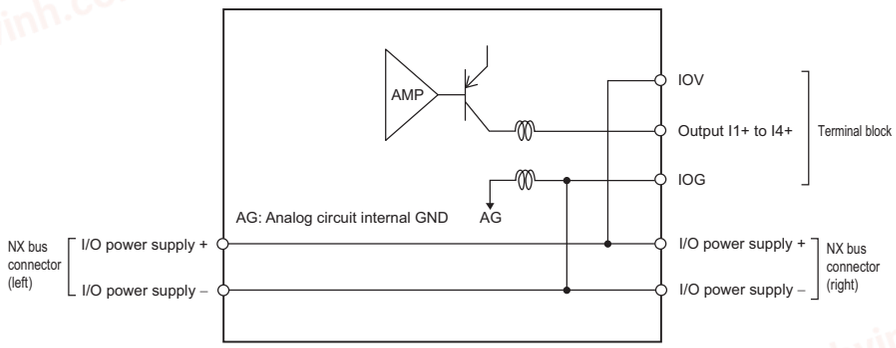
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## Current Output Unit 4points NX-DA3203

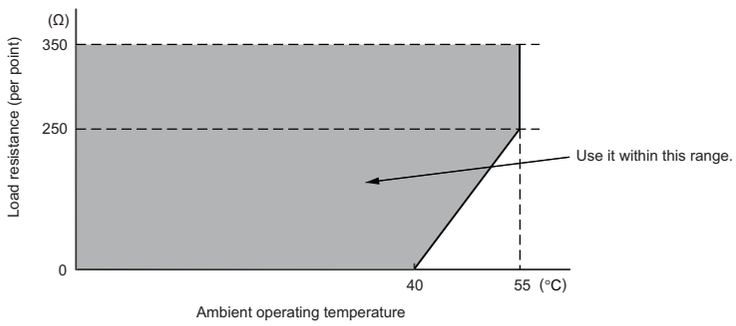
| | | | | |
|---|---|---|---|---|
| **Unit name** | Current Output Unit | **Model** | | NX-DA3203 |
| **Capacity** | 4 points | **External connection terminals** | | Screwless clamping terminal block (12 terminals) |
| **I/O refreshing method** | Free-Run refreshing | | | |
| **Indicator** | TS indicator   | **Output range** | | 4 to 20 mA |
| | | **Output conversion range** | | -5 to 105% (full scale) |
| | | **Allowable load resistance** | | 350 Ω min. |
| | | **Resolution** | | 1/8000 (full scale) |
| | | **Overall accuracy** | **25°C** | ±0.3% (full scale) |
| | | | **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 MΩ 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** | 1.80 W max. | **I/O current consumption** | | No consumption |
| **Weight** | 70 g max. | | | |

**Circuit layout**

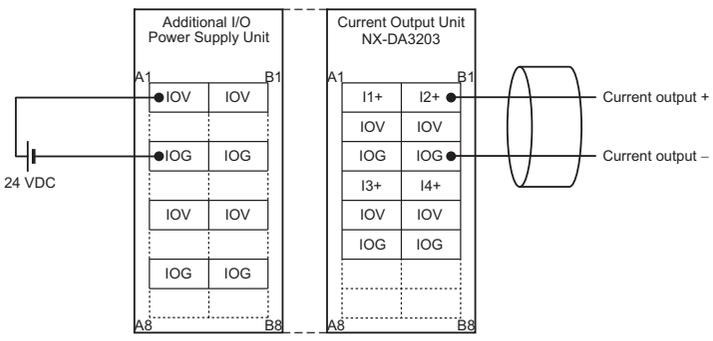



**Installation orientation and restrictions**

Installation orientation: Possible in 6 orientations.
Restrictions:
For upright installation: No restrictions
For any installation other than upright: Restricted as shown in the graph below.




**Terminal connection diagram**



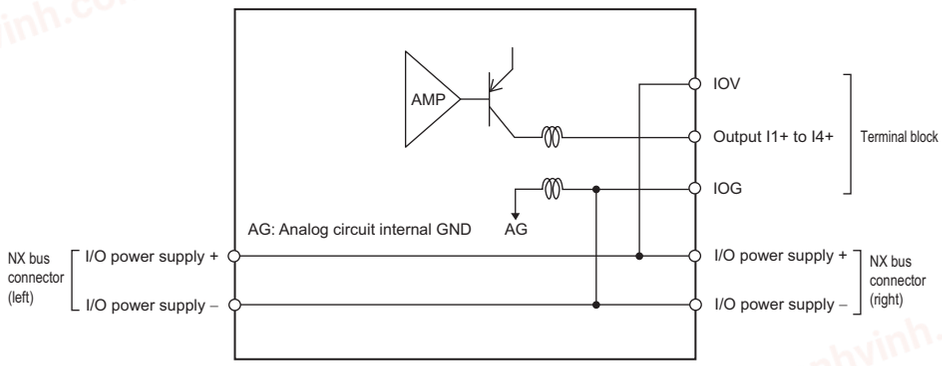
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## Current Output Unit 4points NX-DA3205

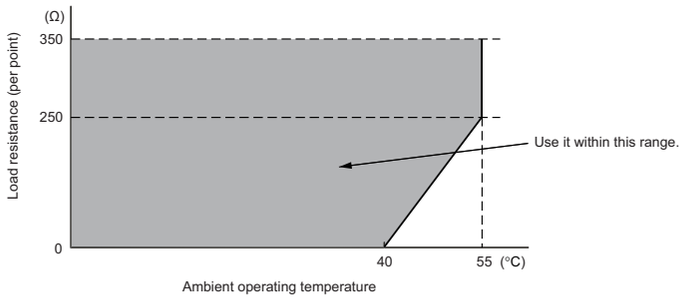
| | | | | |
|---|---|---|---|---|
| **Unit name** | Current Output Unit | **Model** | | NX-DA3205 |
| **Capacity** | 4 points | **External connection terminals** | | Screwless clamping terminal block (12 terminals) |
| **I/O refreshing method** | Switching Synchronous I/O refreshing and Free-Run refreshing | | | |
| **Indicator** | TS indicator   | **Output range** | | 4 to 20 mA |
| | | **Output conversion range** | | -5 to 105% (full scale) |
| | | **Allowable load resistance** | | 350 Ω min. |
| | | **Resolution** | | 1/30000 (full scale) |
| | | **Overall accuracy** | **25°C** | ±0.1% (full scale) |
| | | | **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 MΩ 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.,<br>IOG: 0.1 A/terminal max. |
| **NX Unit power consumption** | 1.80 W max. | **I/O current consumption** | | No consumption |
| **Weight** | 70 g max. | | | |

**Circuit layout**

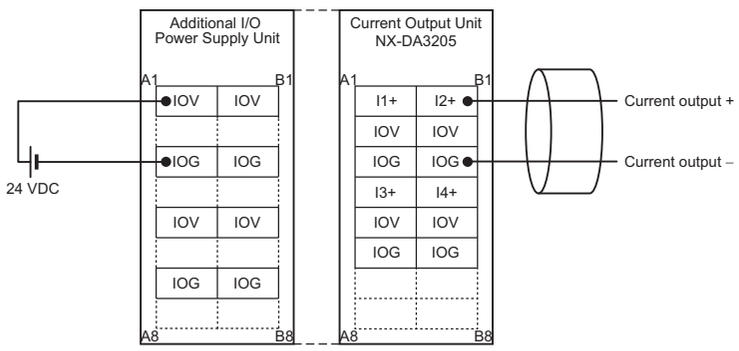



**Installation orientation and restrictions**

Installation orientation: Possible in 6 orientations.
Restrictions:
For upright installation: No restrictions
For any installation other than upright: Restricted as shown in the graph below.




**Terminal connection diagram**



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# Version Information

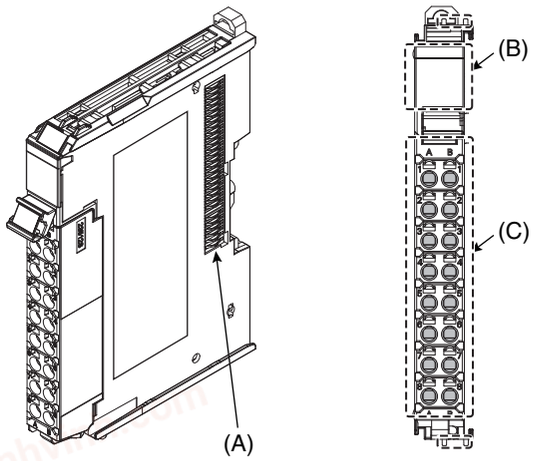
## NX Series Analog Output Unit and Sysmac Studio

| NX Series Analog Output Unit | Sysmac Studio | |
|---|---|---|
| | Version 1.05 or lower | Version 1.06 or higher |
| NX-DA□□□□ | Not supported | Supported |

# External Interface

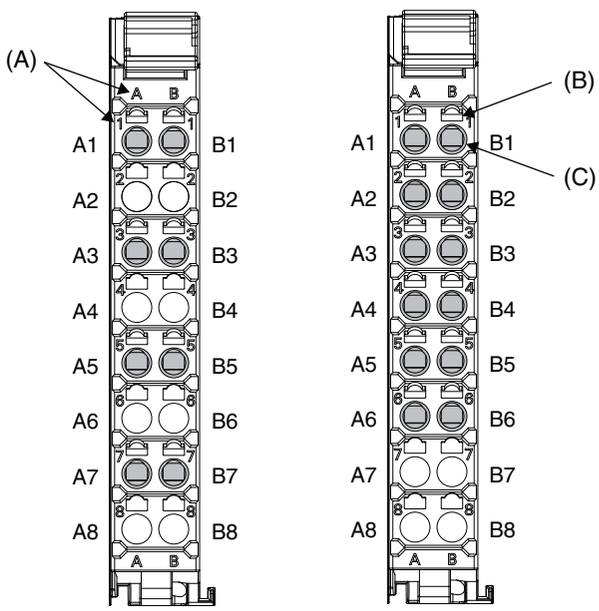
## Analog Output Unit

**NX-DA□□□□**
**12mm Width**




| Symbol | Name | Function |
|---|---|---|
| (A) | NX bus connector | This connector is used to connect each Unit. |
| (B) | Indicators | The indicators show the current operating status of the Unit. |
| (C) | Terminal block | The terminal block is used to connect external devices.<br>The number of terminals depends on the type of Unit. |

**Terminal Blocks**




12 mm width
8-terminal type

12 mm width
12-terminal type

| Symbol | Name | Function |
|---|---|---|
| (A) | Terminal number indications | Terminal numbers for which A to D indicate the column, and 1 to 8 indicate the line are displayed.<br>The terminal number is a combination of column and line, so A1 to A8 and B1 to B8 are displayed.<br>The terminal number indications are the same regardless of the number of terminals on the terminal block. |
| (B) | Release holes | Insert a flat-blade screwdriver into these holes to connect and remove the wires. |
| (C) | Terminal holes | The wires are inserted into these holes. |

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# 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 one-pin ferrules. Do not use two-pin ferrules.

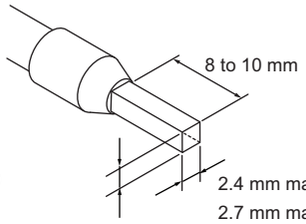
The applicable ferrules, wires, and crimping tool are given in the following table.

| Terminal types | Manufacturer | Ferrule model number | Applicable wire ($mm^2$ (AWG)) | Crimping tool |
|---|---|---|---|---|
| Terminals other than ground terminals | Phoenix Contact | AI0,34-8 | 0.34 (#22) | Phoenix Contact (The figure in parentheses is the applicable wire size.) CRIMPFOX 6 (0.25 to 6 $mm^2$, AWG24 to 10) |
| | | AI0,5-8 | 0.5 (#20) | |
| | | AI0,5-10 | | |
| | | AI0,75-8 | 0.75 (#18) | |
| | | AI0,75-10 | | |
| | | AI1,0-8 | 1.0 (#18) | |
| | | AI1,0-10 | | |
| | | AI1,5-8 | 1.5 (#16) | |
| | | AI1,5-10 | | |
| Ground terminals | | AI2,5-10 | 2.0 * | |
| Terminals other than ground terminals | Weidmuller | H0.14/12 | 0.14 (#26) | Weidmuller (The figure in parentheses is the applicable wire size.) PZ6 Roto (0.14 to 6 $mm^2$, AWG 26 to 10) |
| | | H0.25/12 | 0.25 (#24) | |
| | | 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 $mm^2$ 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



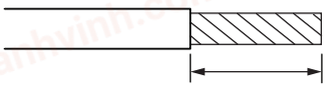

1.6 mm max. (except ground terminals)
2.0 mm max. (ground terminals)

2.4 mm max. (except ground terminals)
2.7 mm max. (ground terminals)

## Using Twisted Wires/Solid Wires

If you use the twisted wires or the solid wires, the applicable wire range and conductor length (stripping length) are as follows.
Use the twisted wires to connect the ground wire to a ground of 100 Ω or less. Do not use the solid wires.

| Terminal types | Applicable wires | Conductor length (stripping length) |
|---|---|---|
| Ground terminals | 2.0 $mm^2$ | 9 to 10 mm |
| Terminals other than ground terminals | 0.08 to 1.5 $mm^2$ AWG28 to 16 | 8 to 10 mm |



Conductor length (stripping length)

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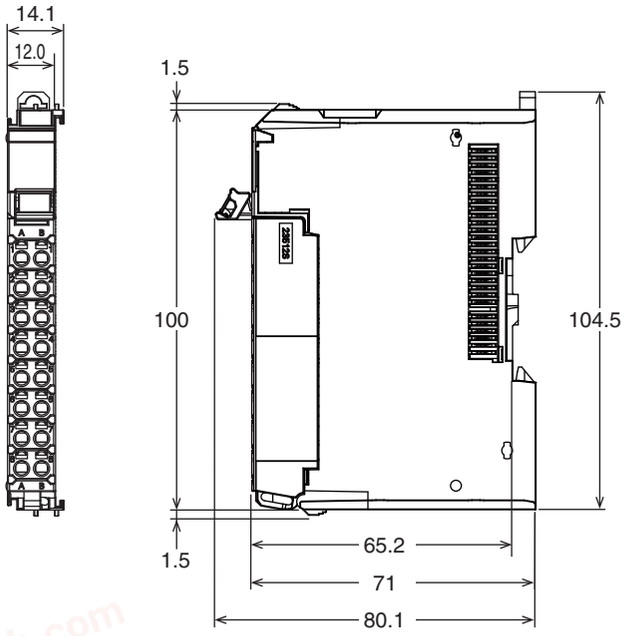


# Dimensions

(Unit/mm)

## Analog Output Unit

**NX-DA□□□□**
**12 mm Width**




# Related Manuals

| Cat. No. | Model number | Manual name | Application | Description |
|---|---|---|---|---|
| W522 | NX-AD□□□□<br>NX-DA□□□□<br>NX-TS□□□□ | NX-series Analog I/O Units User's Manual | Learning how to use NX-series Analog I/O Units and Temperature Input Units | The hardware, setup methods, and functions of the NX-series Analog I/O Units and Temperature Input Units are described. |

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