

Sysmac Automation Platform

Machine Interface NA Series

Bringing technology to life



```
Public Sub New(enableProfiling as Boolean)
    Me.Rev()
    If enableProfiling = True Then
        'begin profiling to a local directory, allowing the
        Dim profilerOutput As String = "c:\temp\log\"
        New ExecutionPlanFile(
            ExecutionPlanFile.FileName
        True)
    End If
End Sub
```

Sysmac - the family that matches every requirement

An HMI that is dynamic, intuitive and predictive makes industrial machines more attractive and competitive. The Omron HMI enables faster, more efficient control and monitoring - and a more natural, proactive relationship between operator and machine. The design has been based on real applications and customer requirements, a future-proofed, scalable platform that will evolve with their ever-changing needs, allowing real time reaction to events. As part of the system family, the NA Series is fully aware of the total machine.

- Proactive operator/ machine relationship
- Design based on real applications and customer requirements
- Future-proof, scalable platform
- Allows quick reaction





G5 servo system



FH Vision System



NX I/O
NX Safety



NJ/NX Machine Automation Controller

Integrating your world

Sysmac Studio is the centrepiece of the Sysmac Platform, bringing together all areas of automation including: logic, motion, vision, safety and now visualisation. The NA series machine interface brings you a clear view in one integrated project.

ONE Tag Database

- Share NJ/NX Variables (Tags) in the machine interface application. "Intelli sense" makes it FAST



ONE Learning, ONE Project

- Program your controller and safety systems
- Simultaneously program the NA Series as device in Sysmac Studio
- Program your whole machine in one project
- Work in a familiar way on all devices

Safe and secure

- Configure individual users with multi access levels

SIMPLE

- Clearly and quickly define the View
- Quickly change properties, animations, events and actions
- Powerful page editor to group objects
- Rotate, and resize - all with a simple click

BUT STILL FLEXIBLE

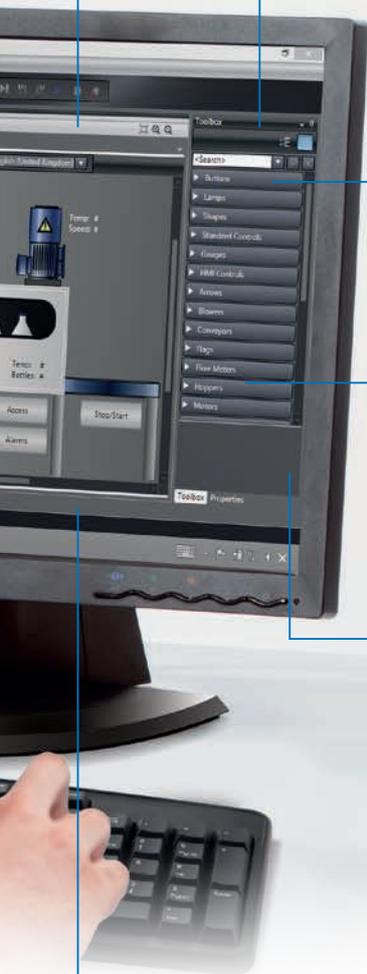
- Write your Visual Basic Script
- Extend the possibilities with Visual Basic

Test it in ONE

- Integrated testing through simulation of motion, logic and visualisation at the same time
- Build confidence before having a single piece of hardware
- Test your machine interface with the NJ/NX Control program via the Simulator in Sysmac Studio

Features for speed

- Structured programming (through One software)
- Network device insight
- Vision setup
- Machine Controller troubleshooting



Insight & security maximised ...

The NA series has full security and authentication features that keep your valuable assets secure at all times. And if something unexpected does happen, in your machine you will be able to solve the problem quickly and prevent a reoccurrence.

- Multiple-access level security and authentication
- Troubleshooting tools and history log
- Tune and adjust parameters without stopping the machine
- Quick loading of new data sets into the NJ/NX Controller
- Data sets can be saved to/from the SD card

Increased security

The NA Series can be configured to specific staff, with multi access levels with password protection.

This ensures authorised people interact with the machine.



Protecting your assets

- Your project can be password-protected along with other applications (Control and Safety).
- Transferring data can be protected (disable overwrite or theft).



... downtime minimised



Multimedia on your machine

You can present a machine view that is understandable at a glance. The NA Series brings everything together through rich media including PDF, video, and data to provide an intuitive and proactive machine management tool.



Show your manual in a movie

Imagine actually showing how to perform certain procedures. With the NA Series you have a trained engineer at the operator's side, 24x7.



Show PDFs

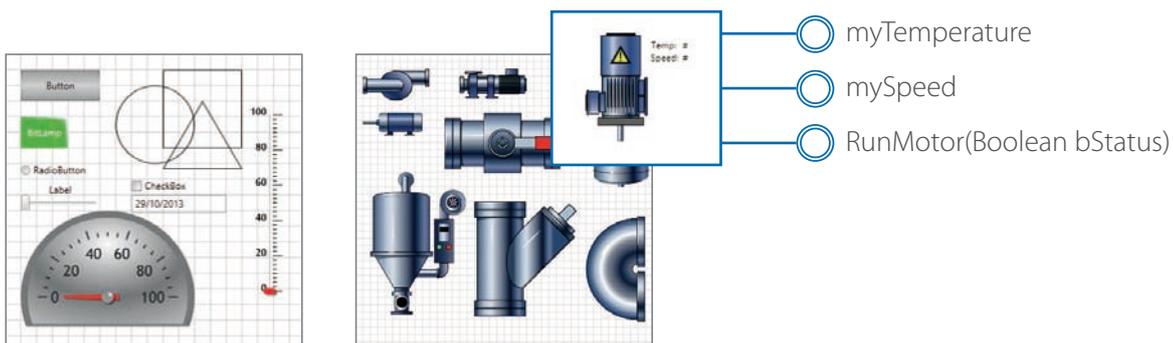
You can use whatever visual assets you already have to illustrate how to do things.

Simple, but Flexible!

The NA Series gives the user the ability to design using IAGs (Intelligent Application Gadgets). IAGs simplify and accelerate the development process through structuring the project and enhancing reuse. From simple graphics to complex objects, you can make your own collections and share them between projects, like a Function Block.

Step 1: Machine Parts, the Visual

Using standard controls, or graphics from the machine parts collection, design your own IAG. Add interface properties and methods to bring the object to life when reused.



```
' IAG Code behind - Add local subroutines for the IAG.
Public Function RunMotor(bStatus As Boolean) As Double
    ' start motor at default speed
    mySpeed = 50
    ' return current speed
    RunMotor = 50
End Function

Public Function IncreaseSpeed(increment As Integer) As Double
    ' Increase speed by increment if < 1000
    If mySpeed + increment < 1000 Then
        mySpeed = mySpeed + increment
    Else
        ' Otherwise set to top speed
        mySpeed = 1000
    End If
    ' Return new speed
    IncreaseSpeed = mySpeed
End Function
```

Step 2: Extensible with Visual Basic

As well as many graphic IAGs, it is also possible to embed code within an IAG. The code can extend the possibilities of the gadget such as providing special device communication. Thanks to Visual Basic the standard functionality of the NA can be extended as required.

1

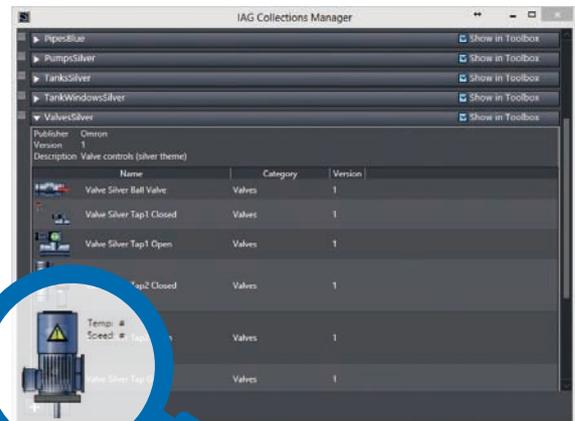
2



3

Step 3: Publish and Share

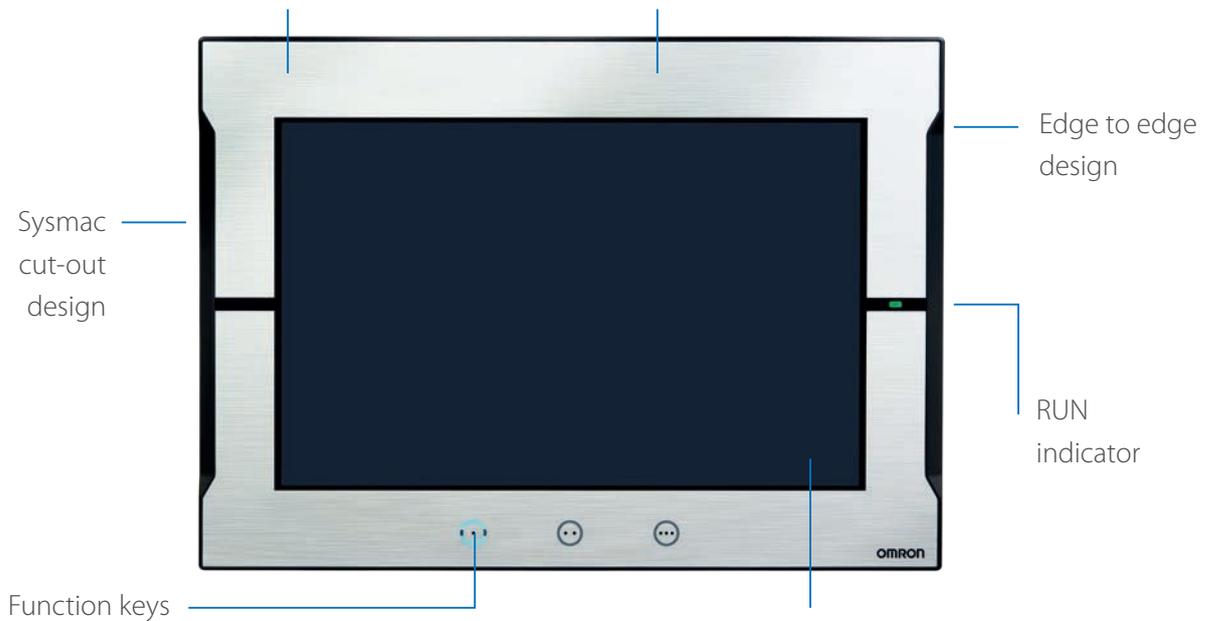
When the IAG is built and tested (using simulation) it can be published and the collection file distributed to be used again and again. Omron will release further IAG collections to extend the functionality of the NA Series.



A range of options that covers every need

All wide screen models: 7, 9, 12, 15 inch

Black and Silver



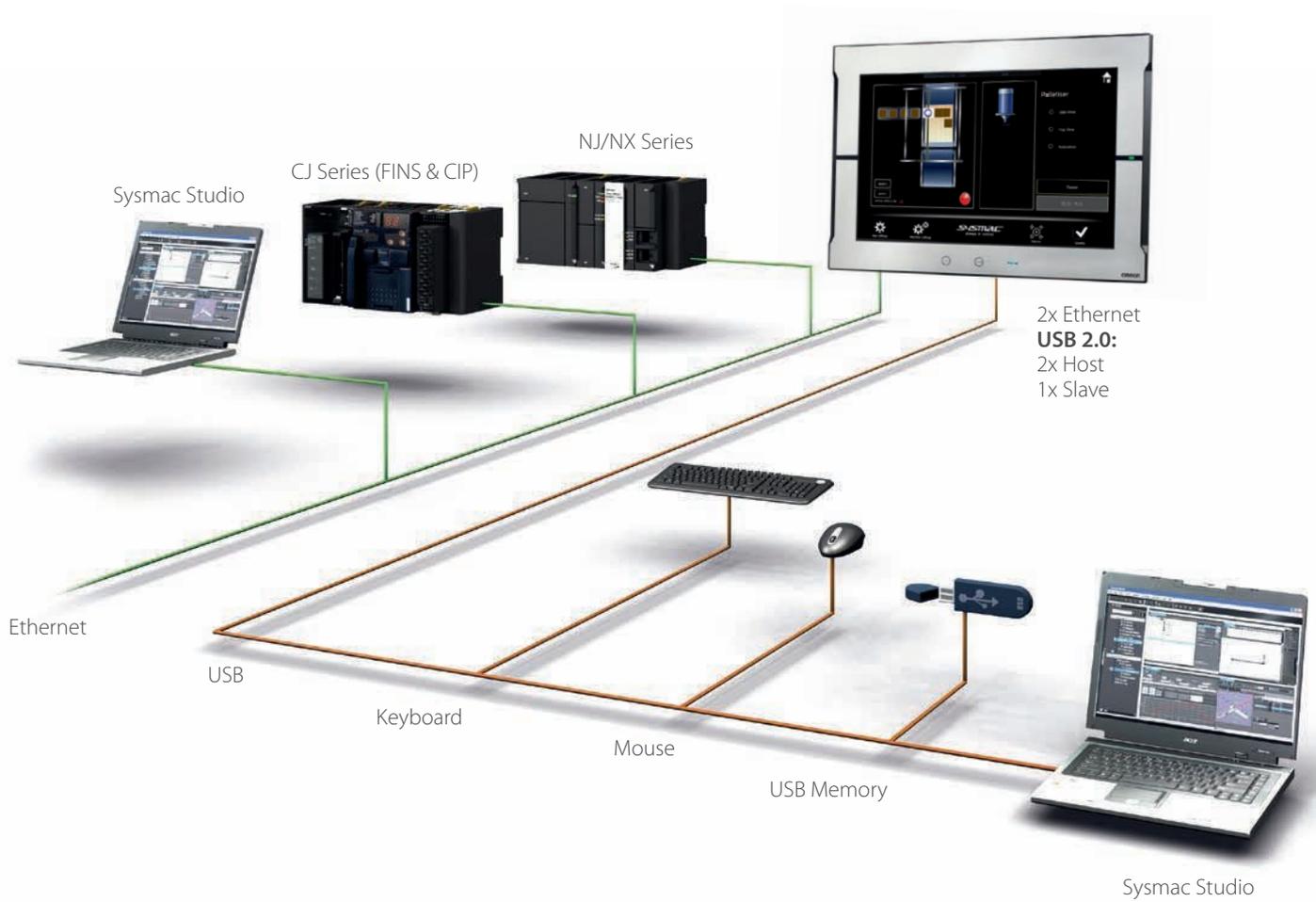
Resistive touch screen, single touch ...ideal for environments where operators wear gloves and water proof is needed



- 1 USB slave (Tool port)
- 2 2x USB
- 3 1 Serial*

- 4 2 Ethernet ports, one for factory one for office network
- 5 SD Card slot
- 6 24V DC

*The serial port is for future expansion.



- High speed communications network
- Broad choice of connection possibilities
- USB cable detachable without changing the hardware
- Water and dust proof design

Programmable Terminal NA series

Bringing technology to life

The NA-series Programmable Terminal transforms machine data into information, shows information and controls devices based on requirements at FA manufacturing sites.

The NA Series, together with the NJ/NX-series Machine Automation Controller and the Automation Software Sysmac Studio, allows you to simply and flexibly create sophisticated user interfaces to suit your machines.



Features

- Widescreen in all models: 7, 9, 12, and 15 inches
- More than 16 million color display for all models and 1280 x 800 high resolution display for the 12 and 15-inch models
- Multimedia including video and PDF
- 2 Ethernet ports capable of simultaneous access from both the control device and maintenance segments by separating the segments
- Sysmac Studio providing an Integrated Development Environment
 - NJ/NX variables sharing in the NA project and NA application testing with the NJ/NX program via the Simulator to reduce development time
- Many security features including operation authority settings and execution restrictions with IDs
- Microsoft Visual Basic for versatile, flexible and advanced programming

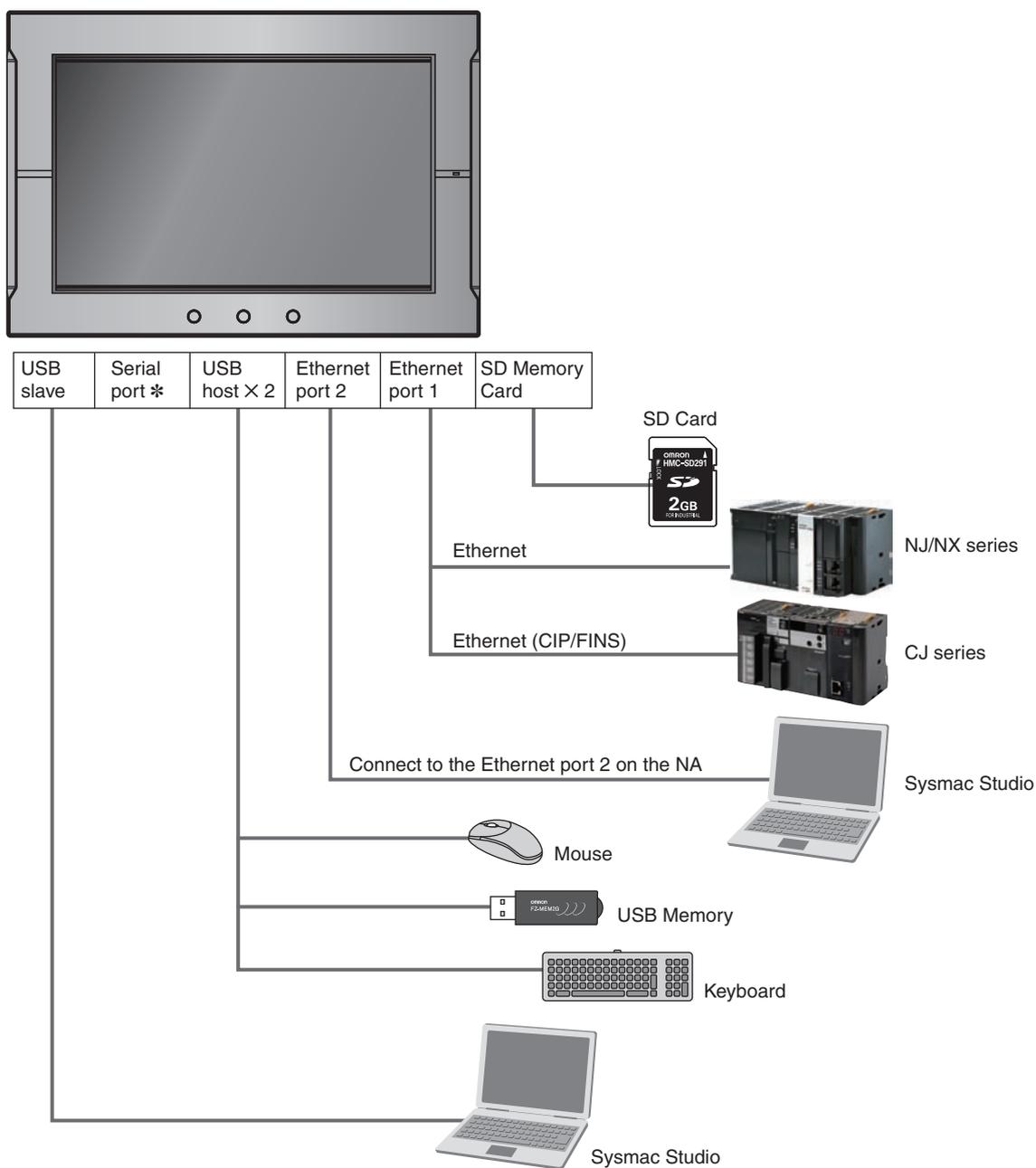
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System configuration



* The serial port is for future expansion.

NA series

Ordering Information

New models NA5-□U□□□□ are released in April 2015.

New models NA5-□U□□□□ and existing models NA5-□W□□□□ have the same specifications and performance characteristics of hardware and software except for certified safety standards.

For certified safety specifications, refer to International standards in the *General Specifications* on page 17.

NA5-□U

Product name	Specifications	Model
NA5-15U	15.4 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 1280 × 800 dots, Frame color : Silver	NA5-15U101S
	15.4 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 1280 × 800 dots, Frame color : Black	NA5-15U101B
NA5-12U	12.1 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 1280 × 800 dots, Frame color : Silver	NA5-12U101S
	12.1 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 1280 × 800 dots, Frame color : Black	NA5-12U101B
NA5-9U	9 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 800 × 480 dots, Frame color : Silver	NA5-9U001S
	9 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 800 × 480 dots, Frame color : Black	NA5-9U001B
NA5-7U	7 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 800 × 480 dots, Frame color : Silver	NA5-7U001S
	7 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 800 × 480 dots, Frame color : Black	NA5-7U001B

NA5-□W

Product name	Specifications	Model
NA5-15W	15.4 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 1280 × 800 dots, Frame color : Silver	NA5-15W101S
	15.4 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 1280 × 800 dots, Frame color : Black	NA5-15W101B
NA5-12W	12.1 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 1280 × 800 dots, Frame color : Silver	NA5-12W101S
	12.1 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 1280 × 800 dots, Frame color : Black	NA5-12W101B
NA5-9W	9 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 800 × 480 dots, Frame color : Silver	NA5-9W001S
	9 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 800 × 480 dots, Frame color : Black	NA5-9W001B
NA5-7W	7 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 800 × 480 dots, Frame color : Silver	NA5-7W001S
	7 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 800 × 480 dots, Frame color : Black	NA5-7W001B

Options

Product name	Specifications	Model
SD memory card	2 GB	HMC-SD291
	4 GB	HMC-SD491
USB Memory	2 GB	FZ-MEM2G
	8 GB	FZ-MEM8G
Replacement Battery	Battery life: 5 years (at 25°C). This Battery is provided as an accessory.	CJ1W-BAT01
Anti-reflection Sheets	For the NA5-15W. Attach a Sheet to the screen to protect against diffused reflections and dirt. The entire Sheet is colorless and transparent. Five Sheets are provided in one set.	NA-15WKBA04
	For the NA5-12W. Attach a Sheet to the screen to protect against diffused reflections and dirt. The entire Sheet is colorless and transparent. Five Sheets are provided in one set.	NA-12WKBA04
	For the NA5-9W. Attach a Sheet to the screen to protect against diffused reflections and dirt. The entire Sheet is colorless and transparent. Five Sheets are provided in one set.	NA-9WKBA04
	For the NA5-7W. Attach a Sheet to the screen to protect against diffused reflections and dirt. The entire Sheet is colorless and transparent. Five Sheets are provided in one set.	NA-7WKBA04

Automation Software

Product name	Specifications	Number of licenses	Media	Model
Sysmac Studio Standard Edition Ver.1.□□	The Sysmac Studio is the software that provides an integrated environment for setting, programming, debugging and maintenance of machine automation controllers including the NJ/NX Series, EtherCAT Slave, and the HMI. Sysmac Studio runs on the following OS. Windows XP (Service Pack 3 or higher, 32-bit version) / Windows Vista (32-bit version) / Windows 7 (32-bit/64-bit version) / Windows 8 (32-bit/64-bit version) / Windows 8.1 (32-bit/64-bit version)	– (Media only)	DVD	SYSMAC-SE200D
		1 license	–	SYSMAC-SE201L
		3 licenses		SYSMAC-SE203L
		10 licenses		SYSMAC-SE210L
		30 licenses		SYSMAC-SE230L
		50 licenses		SYSMAC-SE250L

Note: Site licenses are available for users who will run Sysmac Studio on multiple computers. Ask your OMRON sales representative for details.

USB Cable

Product name	Specifications
USB Cable	Use commercially available USB cable. Specifications: USB 2.0 cable (A connector - B connector), 5.0 m max.

Recommended Network Devices

Industrial Switching Hubs

Product name	Specifications					Model
	Functions	No. of ports	Failure detection	Accessories	Current consumption (A)	
Industrial Switching Hubs	Quality of Service (QoS): EtherNet/IP control data priority Failure detection: Broadcast storm and LSI error detection 10/100BASE-TX, Auto-Negotiation	3	No	Power supply connector	0.22	W4S1-03B
		5	No	<ul style="list-style-type: none"> • Power supply connector • Connector for informing error 	0.22	W4S1-05B
		5	Yes		0.22	W4S1-05C

Recommended Ethernet Communications Cables

Use STP (shielded twisted-pair) cable of category 5 or higher

Product name	Recommended manufacturer	Model	
Wire Gauge and Number of Pairs: AWG24, 4-pair Cable	Cables	Hitachi Metals, Ltd	NETSTAR-C5E SAB 0.5 × 4P
		Kuramo Electric Co.	KETH-SB
		SWCC Showa Cable Systems Co.	FAE-5004
	RJ45 Connectors	Panduit Corporation	MPS588
Wire Gauge and Number of Pairs: 0.5 mm, 4-pair Cable	Cables	Fujikura Ltd.	F-LINK-E 0.5mm × 4P
	RJ45 Connectors	Panduit Corporation	MPS588

Note: We recommend you to use above cable and RJ45 Connectors together.

NA series

Performance Specifications

Display

Item		Specification			
		NA5-15W/-15U	NA5-12W/-12U	NA5-9W/-9U	NA5-7W/-7U
Display panel *1	Display device	TFT LCD			
	Screen size	15.4 inches	12.1 inches	9.0 inches	7.0 inches
	Resolution	1,280 × 800 dots (horizontal × vertical)		800 × 480 dots (horizontal × vertical)	
	Colors	16,770,000 colors (24 bit full colors)			
	Effective display area	331 × 207 mm (horizontal × vertical)	261 × 163 mm (horizontal × vertical)	197 × 118 mm (horizontal × vertical)	152 × 91 mm (horizontal × vertical)
	View angles	Left: 60°, Right: 60°, Top: 60°, Bottom: 60°			
Backlight *2	Life	50,000 hours min. *3			
	Brightness adjustment	200 levels			
Front panel indicators *4	RUN	Lit green: Normal operation		Lit red: Error	

*1. There may be some defective pixels in the display. This is not a fault as long as the numbers of defective light and dark pixels fall within the following standard ranges.

Model	Standard range
NA5-15W□□□□	Number of light and dark pixels: 10 or less. (There must not be 3 consecutive light/dark pixels.)
NA5-12W□□□□	
NA5-9W□□□□	
NA5-7W□□□□	

*2. The backlight can be replaced at an OMRON maintenance base.

*3. This is the estimated time before brightness is reduced by half at room temperature and humidity. The life expectancy is drastically shortened if Programmable Terminal is used at high temperatures.

*4. The brightness of the front panel indicators is also adjustable when you adjust the brightness of the backlight.

Operation

Item		Specification			
		NA5-15W/-15U	NA5-12W/-12U	NA5-9W/-9U	NA5-7W/-7U
Touch panel	Method: Analog resistance membrane (pressure sensitive)				
	Resolution: 16,384 × 16,384				
	Life: 1,000,000 operations				
Function keys *	3 inputs (capacitance inputs)				

* Each function key has blue indicator. The brightness of the function key indicators is also adjustable when you adjust the brightness of the backlight.

Data Capacity

Item		Specification			
		NA5-15W/-15U	NA5-12W/-12U	NA5-9W/-9U	NA5-7W/-7U
User data capacity		256 MB			

External Interfaces

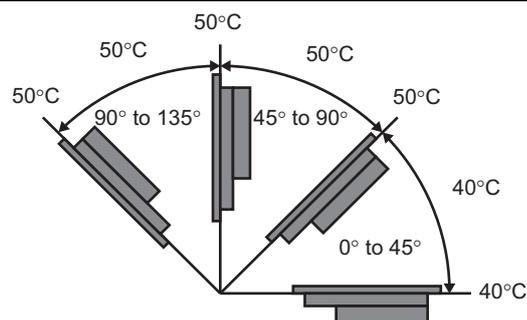
Item		Specifications (Same for all models.)			
Ethernet ports	Applications	Port 1: Connecting to anything other than the Sysmac Studio, e.g., device connections and VNC clients Port 2: Connecting to the Sysmac Studio in addition to the applications of port 1.			
	Number of ports	2 ports			
	Compliant standards	IEEE 802.3i (10BASE-T), IEEE 802.3u (100BASE-TX), and IEEE 802.3ab (1000Base-T)			
	Transmission media	Shielded twisted-pair (STP) cable: Category 5, 5e, or higher			
	Transmission distance	100 m			
	Connector	RJ-45 8P8C modular connector			
USB host ports	Applications	USB Memory Device, keyboard, or mouse			
	Number of ports	2 ports			
	Compliant standards	USB 2.0			
	Transmission distance	5 m max.			
	Connector	Type-A connector			
USB slave port	Applications	Sysmac Studio connection			
	Number of ports	1 port			
	Compliant standards	USB 2.0			
	Transmission distance	5 m max.			
	Connector	Type-B connector			
Serial port *	Applications	Device Connection			
	Number of ports	1 port			
	Compliant standards	RS-232C			
	Transmission distance	15 m max.			
	Connector	D-DUB 9-pin female connector			
SD Memory Card slot	Applications	To transfer or store the project or to store log data.			
	Number of slots	1 slot			
	Compliant standards	SD/SDHC			
Expansion Unit connector *	Applications	Expansion Unit			
	Quantity	1			

* The serial port and Expansion Unit connector are for future expansion.

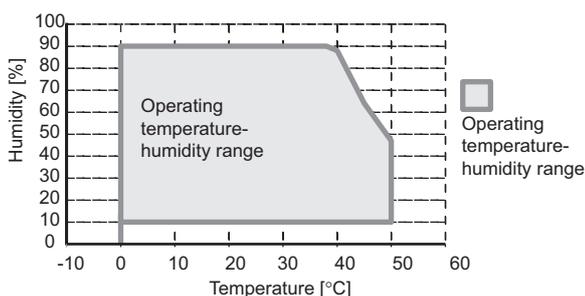
General Specifications

Item	Specification			
	NA5-15W/-15U	NA5-12W/-12U	NA5-9W/-9U	NA5-7W/-7U
Rated supply voltage	24 VDC			
Allowable power supply voltage range	19.2 to 28.8 VDC (24 VDC ±20%)			
Allowable momentary power interruption time	Operation for momentary power interruption is not specified.			
Power consumption	47 W max.	45 W max.	40 W max.	35 W max.
Ambient operating temperature	0 to 50°C *1 *2			
Ambient storage temperature	-20 to +60°C *3			
Ambient operating humidity	10 to 90% *2 Must be no condensation.			
Atmosphere	Must be free from corrosive gases.			
Pollution degree	2 or less: JIS B 3502, IEC 61131-2			
Noise immunity	2 kV on power supply line (Conforms to IEC 61000-4-4.)			
Vibration resistance (during operation)	Conforms to IEC 60068-2-6. 5 to 8.4 Hz with 3.5 mm half amplitude and 8.4 to 150 Hz with 9.8 m/s ² for 100 minutes each in X, Y, and Z directions (Time coefficient of 10 minutes × coefficient factor of 10 = total time of 100 min.)			
Shock resistance (during operation)	Conforms to IEC 60028-2-27. 147 m/s ² 3 times each in X, Y, and Z directions			
Dimensions	420 × 291 × 69 mm (W × H × D)	340 × 244 × 69 mm (W × H × D)	290 × 190 × 69 mm (W × H × D)	236 × 165 × 69 mm (W × H × D)
Panel cutout dimensions	392 ⁺¹ ₀ × 268 ⁺¹ ₀ mm (horizontal × vertical) Panel thickness: 1.6 to 6.0 mm	310 ⁺¹ ₀ × 221 ⁺¹ ₀ mm (horizontal × vertical) Panel thickness: 1.6 to 6.0 mm	261 ⁺¹ ₀ × 166 ⁺¹ ₀ mm (horizontal × vertical) Panel thickness: 1.6 to 6.0 mm	197 ^{+0.5} ₀ × 141 ^{+0.5} ₀ mm (horizontal × vertical) Panel thickness: 1.6 to 6.0 mm
Weight	3.2 kg max.	2.3 kg max.	1.7 kg max.	1.3 kg max.
Degree of protection	Front-panel controls: IP65 oil-proof type			
Battery life	Battery life: 5 years at 25°C The RTC will be backed up for 5 days after the battery runs low. The RTC will be backed up by a super capacitor for 5 minutes after removing the old battery. (This assumes that the power is first turned ON for at least 5 minutes and then turned OFF.)			
International standards	Please refer to the chart below.			

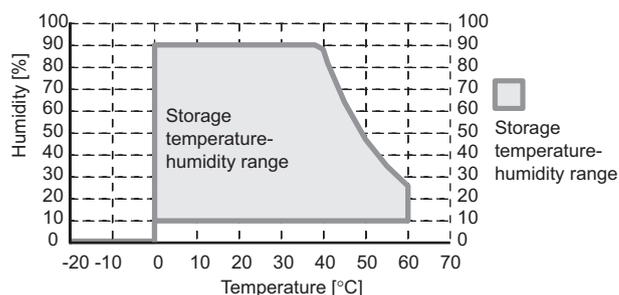
- *1. The ambient operating temperature is subject to the following restrictions, depending on the mounting angle.
- The ambient operating temperature is 0° to 40°C when the mounting angle is 0° or more and less than 45° to the horizontal.
 - The ambient operating temperature is 0° to 50°C when the mounting angle is 45° or more and 90° or less to the horizontal.
 - The ambient operating temperature is 0° to 50°C when the mounting angle is 90° or more and 135° or less to the horizontal.



- *2. Use the Programmable Terminal within the following temperature and humidity ranges.



- *3. Store the Programmable Terminal within the following temperature and humidity ranges.



Certified safety standards

Standards	New models NA5-□U□□□□	Existing models NA5-□W□□□□
Waterproof ratings	IP65	Yes
	UL Type 4X	No
International standards	UL508/CSA Standard C22.2 No 142	Yes
	ANSI/ISA 12.12.01 Class 1 Division 2/ CSA standard C22.2 No.213	Yes
	RCM	Yes
	KC	Yes
	LR	Yes
	NK	No
Self-declaration	DNV	No
	CE	Yes

* Since products meet the criteria specified in this standard, existing models will be recertified to this standard when they are rated UL Type 4X.

NA series

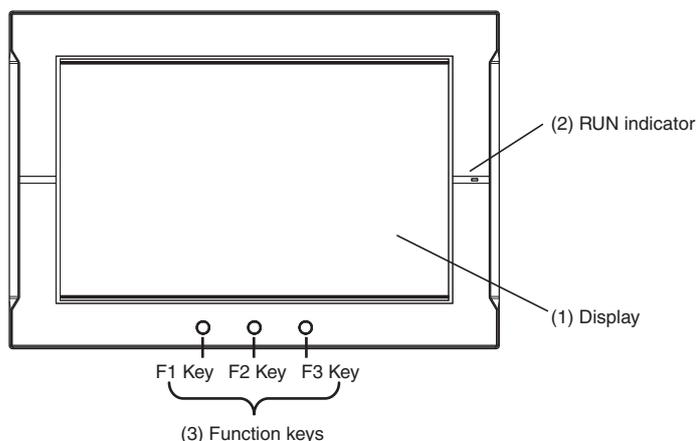
Version Information

NA series and Programming Devices

NA series		Corresponding unit versions/version	
Model	NA system version	NJ/NX-series CPU Units NX701-□□□□ NJ501-□□□□ NJ301-□□□□ NJ101-□□□□	Sysmac studio
NA5-15W/-15U NA5-12W/-12U	1.02 or later	NX701: 1.10 or later NJ101: 1.10 or later	1.13 or later
NA5-9W/-9U NA5-7W/-7U	1.01 or later	NJ501 : 1.01 or later NJ501 Database Connection : 1.05 or later NJ301 : 1.01 or later	1.11 or later

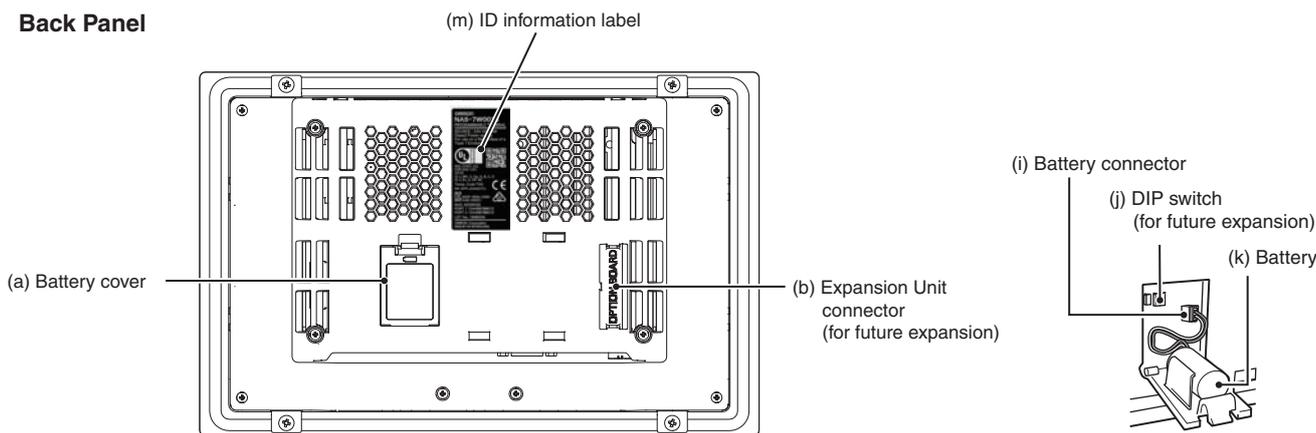
Components and Functions

Front Panel

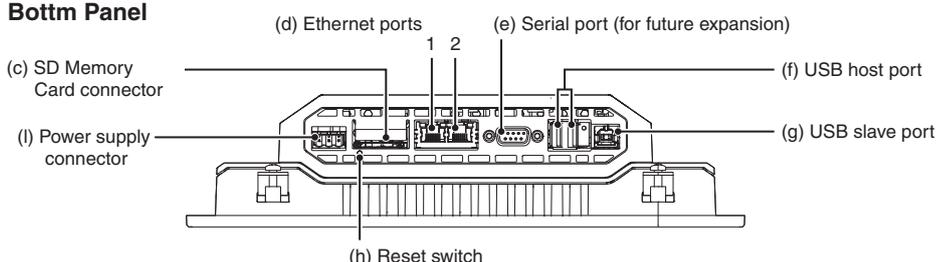


No.	Name	Description
(1)	Display	The entire display is a touch panel that also functions as an input device.
(2)	RUN indicator	The status of the indicator changes according to the status of the NA.
(3)	Function keys	<p>There are three function keys: F1, F2, and F3.</p> <p> : F1 Key,  : F2 Key,  : F3 Key</p> <p>You can use the function keys as execution conditions for the actions for global or page events. You can also use the function keys for interlocks.</p>

Back Panel



Bottom Panel



No.	Name	Description
(a)	Battery cover	Open this cover to replace the Battery.
(b)	Expansion Unit connector *	For future expansion.
(c)	SD Memory Card connector	Insert an SD Memory Card here.
(d)	Ethernet port 1	Connect a device other than the Sysmac Studio.
	Ethernet port 2	Connect mainly the Sysmac Studio.
(e)	Serial port *	For future expansion.
(f)	USB host port	Connect this port to a USB Memory Device, mouse, etc.
(g)	USB slave port	Connect the Sysmac Studio or other devices.
(h)	Reset switch	Use this switch to reset the NA.
(i)	Battery connector	Connect the connector on the backup Battery here.
(j)	DIP switch *	For future expansion. (The DIP switch is on a PCB that is accessed by opening the Battery cover.) Do not change any of the factory settings of the pins on the DIP switch. (Default setting: OFF)
(k)	Battery	This is the battery to backup the clock information in the NA.
(l)	DC input terminals	These are the power supply terminals. Connect the accessory power supply connector and supply power.
(m)	ID information label	You can check the ID information of the NA.

* The DIP switch, Expansion Unit connector, and serial port are for future expansion.

Supported Devices

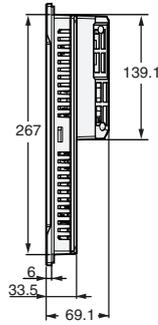
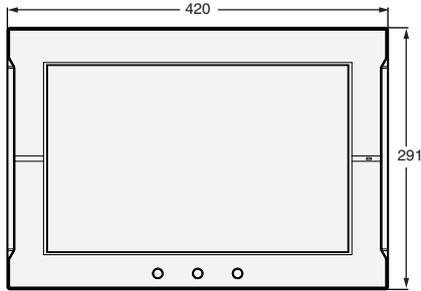
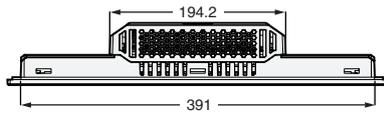
Manufacturer	Models	Connection method	Communications driver
OMRON	NX701-□□□□ NJ501-□□□□ NJ301-□□□□ NJ101-□□□□	Built-in EtherNet/IP port	Ethernet
	CJ2H-CPU64/65/66/67/68-EIP CJ2M-CPU31/32/33/34/35	Built-in EtherNet/IP port	CIP Ethernet
	CJ2H-CPU64/65/66/67/68-EIP CJ2M-CPU31/32/33/34/35	CJ1W-EIP21	
	CJ2H-CPU64/65/66/67/68-EIP CJ2M-CPU31/32/33/34/35	Built-in EtherNet/IP port	FINS Ethernet
	CJ1H-CPU65H/66H/67H CJ1H-CPU65H/66H/67H-R CJ1G-CPU42H/43H/44H/45H CJ1M-CPU11/12/13/21/22/23 CJ2H-CPU64/65/66/67/68(-EIP) CJ2M-CPU11/12/13/14/15 CJ2M-CPU31/32/33/34/35	CJ1W-ETN21 CJ1W-EIP21	

NA series

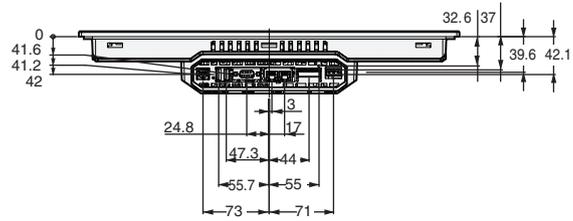
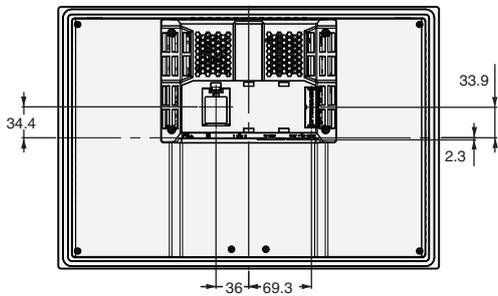
Dimensions

(Unit: mm)

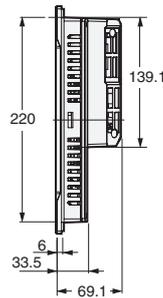
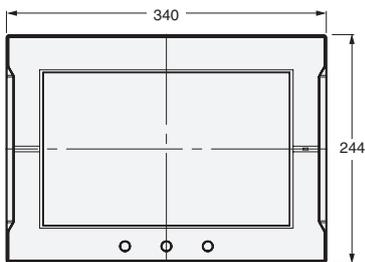
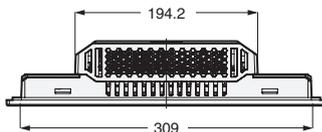
NA5-15W101S/-15W101B
NA5-15U101S/-15U101B



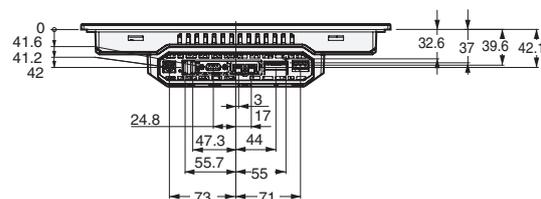
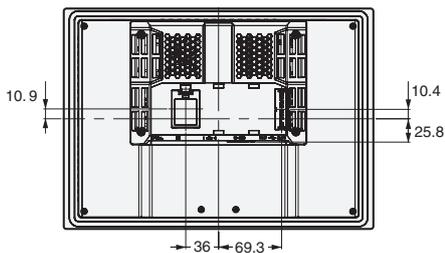
Cable Connection Dimensions



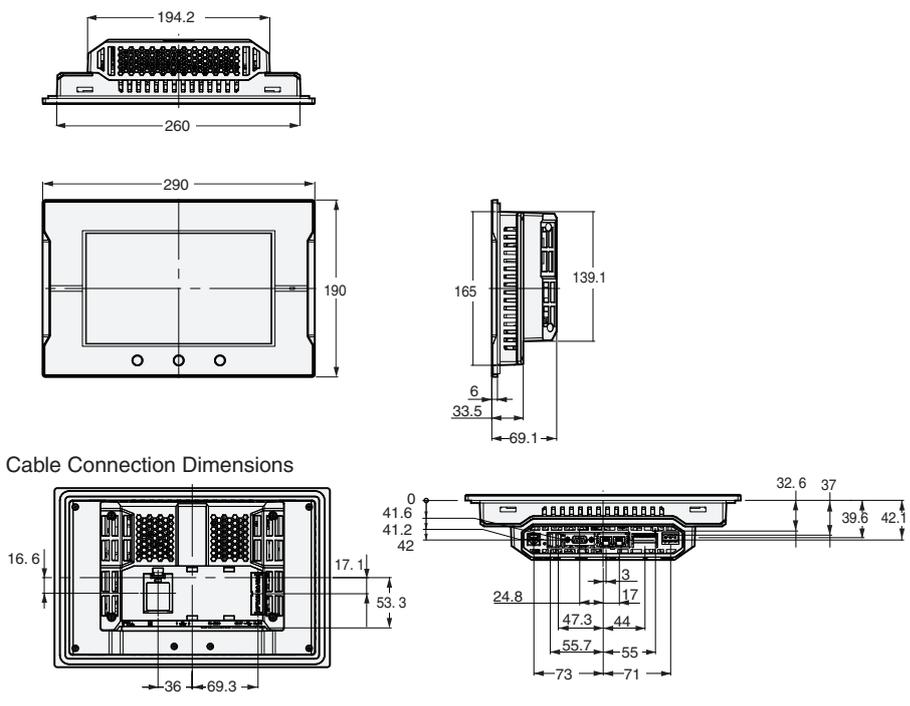
NA5-12W101S/-12W101B
NA5-12U101S/-12U101B



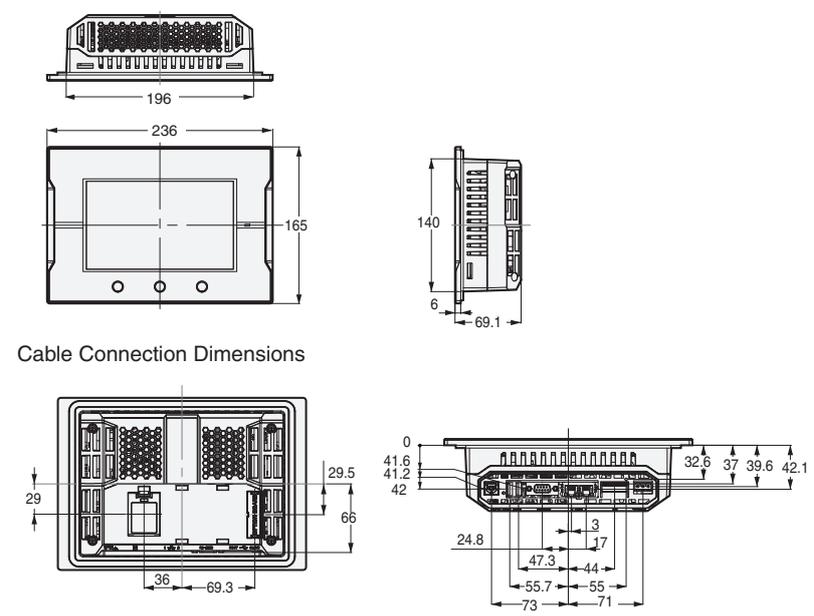
Cable Connection Dimensions



NA5-9W001S/-9W001B
NA5-9U001S/-9U001B



NA5-7W001S/-7W001B
NA5-7U001S/-7U001B



NA series

Related Manuals

Cat. No.	Model number	Manual
V117	NA5-15W□□□□/-15U□□□□ NA5-12W□□□□/-12U□□□□ NA5-9W□□□□/-9U□□□□ NA5-7W□□□□/-7U□□□□	NA-series Programmable Terminal Hardware User's Manual
V118	NA5-15W□□□□/-15U□□□□ NA5-12W□□□□/-12U□□□□ NA5-9W□□□□/-9U□□□□ NA5-7W□□□□/-7U□□□□	NA-series Programmable Terminal Software User's Manual
V119	NA5-15W□□□□/-15U□□□□ NA5-12W□□□□/-12U□□□□ NA5-9W□□□□/-9U□□□□ NA5-7W□□□□/-7U□□□□	NA-series Programmable Terminal Device Connection User's Manual
V120	NA5-15W□□□□/-15U□□□□ NA5-12W□□□□/-12U□□□□ NA5-9W□□□□/-9U□□□□ NA5-7W□□□□/-7U□□□□	NA-series Programmable Terminal Startup Guide

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CSM_5_2_0615
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