

Programmable Terminal NA series

Bringing technology to life

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

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

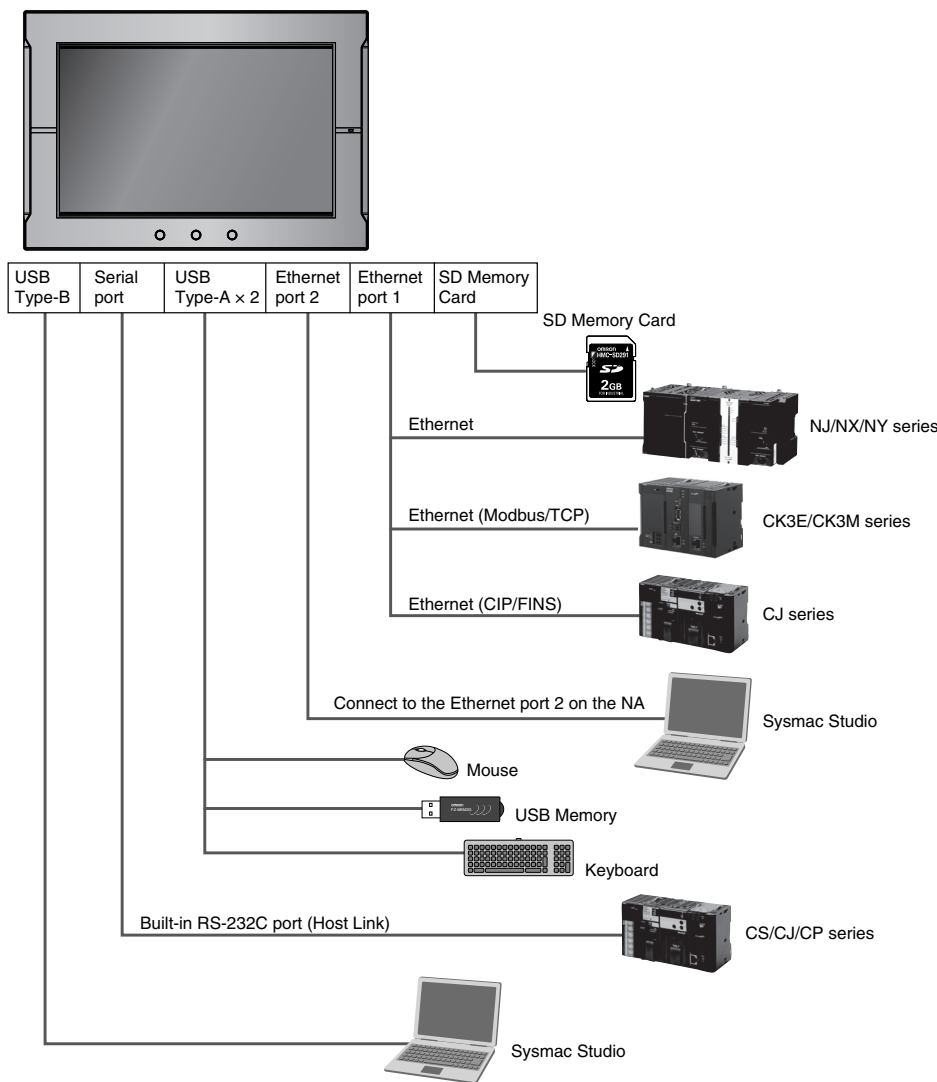


Features

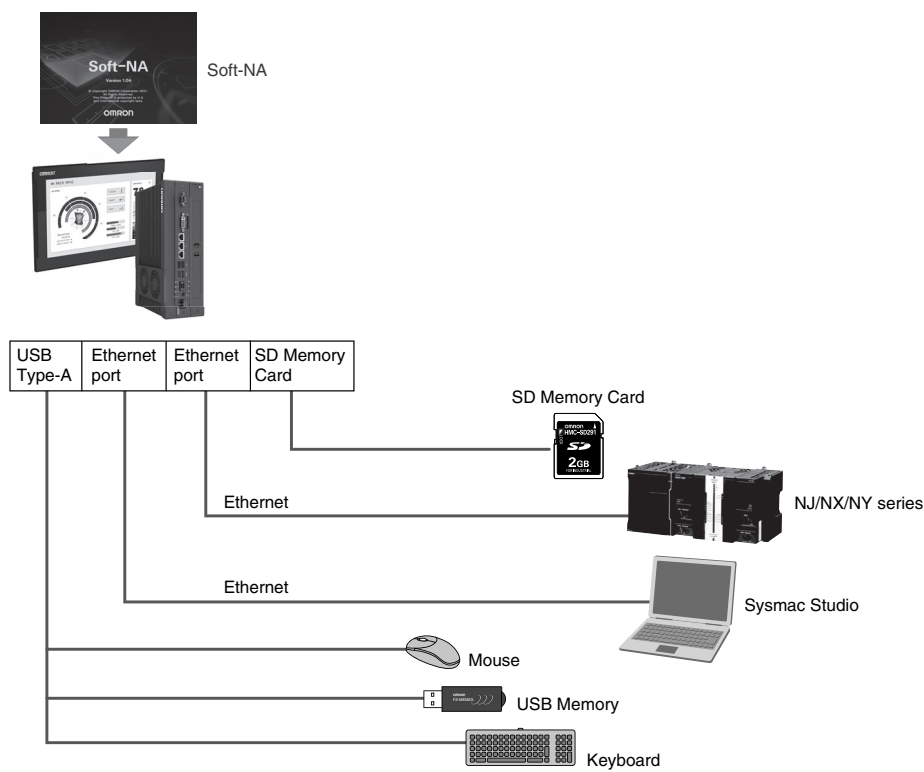
- Widescreen in all models: 7, 9, 12, and 15 inches
- More than 16 million color display for all models and 1280 x 800 high resolution display for the 12 and 15-inch models
- Multimedia including video and PDF
- 2 Ethernet ports capable of simultaneous access from both the control device and maintenance segments by separating the segments
- Sysmac Studio providing an Integrated Development Environment
 - NJ/NX/NY variables sharing in the NA project and NA application testing with the NJ/NX/NY 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
- Software providing NA5-equivalent functionality on a PC or panel PC

System configuration

NA5



Soft-NA



Ordering Information

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 : Black	NA5-15W101B-V2
	15.4 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 1280 × 800 dots, Frame color : Silver	NA5-15W101S-V2
NA5-12W	12.1 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 1280 × 800 dots, Frame color : Black	NA5-12W101B-V2
	12.1 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 1280 × 800 dots, Frame color : Silver	NA5-12W101S-V2
NA5-9W	9 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 800 × 480 dots, Frame color : Black	NA5-9W001B-V2
	9 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 800 × 480 dots, Frame color : Silver	NA5-9W001S-V2
NA5-7W	7 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 800 × 480 dots, Frame color : Black	NA5-7W001B-V2
	7 inch wide screen, TFT LCD, 16,770,000 colors (24 bit full color), 800 × 480 dots, Frame color : Silver	NA5-7W001S-V2

Options

Product name	Specifications	Model
High-pressure Waterproof Attachment *1	This metal frame is for high-pressure waterproofing. Install it to conform to UL Type 4X standards. UL Type 4X is the rating for high-pressure wash-down applications with a flow rate of 246 liter/min.	NA-9WATW01
		NA-7WATW01
Panel Mounting Bracket *1	2 units provided. To conform to UL Type 4X standard, 2 sets are required for NA5-15W□□□□-V2 and 1 set is required for NA5-12W□□□□-V2.	NA-ATT01
SD memory card	2 GB	HMC-SD292
	4 GB	HMC-SD492
	16 GB	HMC-SD1A2
USB Memory	2 GB	FZ-MEM2G
	16 GB	FZ-MEM16G
Replacement Battery	Battery life: 5 years (at 25°C).	CJ1W-BAT01
RS-232C Connecting Cable	D-sub, 9-pin plug to D-sub, 9-pin plug	Length: 2m XW2Z-200T
		Length: 5m XW2Z-500T
	D-sub, 9-pin plug to discrete wire	Length: 2m XW2Z-200T-3
		Length: 5m XW2Z-500T-3
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-V2
	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-V2
	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-V2
	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-V2

*1. Do not use high-pressure waterproof attachments with NA5-15W□□□□-V2/NA5-12W□□□□-V2. If you use a High-pressure waterproof attachment, there is a risk of water entry, which may cause severe equipment damage.

To make NA5-15W□□□□-V2/NA5-12W□□□□-V2 conform to UL Type 4X, mount with additional mounting brackets.

NA series

Soft-NA

Product name	Specifications	Number of licenses	Media	Model
Soft-NA	The Soft-NA is software that displays information on FA manufacturing sites while providing safety, reliability, and maintainability as an industrial display on which operations can be performed as necessary.	- (Media only)	DVD	NA-RTSM
		1 license	USB dongle	NA-RTLD01
		3 licenses		NA-RTLD03
		10 licenses		NA-RTLD10

System Requirements

■When using a commercially-available PC

Item	Requirement	
OS	Windows 10 Pro Version 1903 or later 64 bit	Windows 11 Pro Version 24H2 or later
Processor	Intel Atom® x5-E3940 equivalent or higher processor *1	Intel Celeron® N4000 equivalent or higher processor *1
RAM	4 GB or more	
Free space in the hard drive necessary for installation	1 GB or more	
Optical disk drive	DVD-ROM drive *2	
Communication port	USB	USB2.0 Type-A *3
	LAN	Ethernet *3

*1.ARM-based processors are not supported.

*2.It is required when installing using NA-RTSM.

*3.At least one port is required. The number of required ports varies depending on the method of use.

■When using the industrial PC platform NY-series

The supported models are shown below.

- NYB□□-□□3□□ *1
- NYB□□-□□4□□ *1
- NYP□□-□□3□□-□□□□□□□□ *1
- NYP□□-□□4□□-□□□□□□□□ *1
- NYP□□-□□5□□-□□□□□□□□ *1
- NYE□□-□□N□□-□□□□□□□□ *1
- NY5□□-1□00-□□□44□□□□ *1

*1. Need to be supported only when used on the OS installed during factory dispatch.

Automation Software Sysmac Studio

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 CPU Units, NY-series Industrial PC, EtherCAT Slave, and the HMI.

For details, refer to your local OMRON website and *Sysmac Studio Catalog* (Cat. No. P138).

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	Functions	No. of ports	Accessories	Current consumption (A)	Model
Industrial Switching Hubs	Quality of Service (QoS): EtherNet/IP control data priority 10/100BASE-TX, Auto-Negotiation	5	Power supply connector	0.07	W4S1-05D

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	Kuramo Electric Co.	KETH-SB
	RJ45 Connectors	Panduit Corporation	MPS588

Note: 1. We recommend you to use above cable and RJ45 Connectors together.

NA series

Performance Specifications

Display

Item		Specification			
		NA5-15W	NA5-12W	NA5-9W	NA5-7W
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			
	Type	LED			
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□□□□-V2	Number of light and dark pixels: 10 or less. (There must not be 3 consecutive light/dark pixels.)
NA5-12W□□□□-V2	
NA5-9W□□□□-V2	
NA5-7W□□□□-V2	

*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	NA5-12W	NA5-9W	NA5-7W
Touch panel		Method: Analog resistive membrane type			
		Life: 1,000,000 operations			
Function keys *1		3 inputs (capacitance inputs)			

*1. 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	NA5-12W	NA5-9W	NA5-7W
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 Type-A ports *1 *2	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 Type-B port *1	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	

*1. Connection to all USB 2.0-compliant devices is not guaranteed.

*2. Use a USB memory for temporary applications such as transferring data.

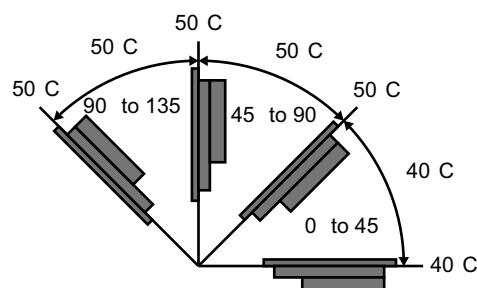
General Specifications

Item	Specification			
	NA5-15W	NA5-12W	NA5-9W	NA5-7W
Rated supply voltage	24 VDC			
Allowable power supply voltage range	19.2 to 28.8 VDC (24 VDC $\pm 20\%$)			
Allowable momentary power interruption time	Operation for momentary power interruption is not specified.			
Power consumption	29 W max.	28 W max.	23 W max.	19 W max.
Inrush current *1	During a cold start at 24 VDC input and room temperature 4.0 A max. 30 μ s max. *2			
Ambient operating temperature	0 to 50°C *3 *4			
Ambient storage temperature	-20 to +60°C *5			
Ambient operating humidity	10 to 90% *4 Must be no condensation.			
Atmosphere	Must be free from corrosive gases.			
Pollution degree	2 or less: Meets IEC 61010-2-201.			
Noise immunity	2 kV on power supply line (Conforms to IEC 61000-4-4.)			
Vibration resistance (during operation)	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 $\times$ 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	414 $\times$ 287 $\times$ 69 mm (W $\times$ H $\times$ D)	333 $\times$ 240 $\times$ 69 mm (W $\times$ H $\times$ D)	283 $\times$ 185 $\times$ 69 mm (W $\times$ H $\times$ D)	220 $\times$ 160 $\times$ 69 mm (W $\times$ H $\times$ D)
Panel cutout dimensions	392 ⁺¹ ₀ $\times$ 268 ⁺¹ ₀ mm (horizontal $\times$ vertical) Panel thickness: 1.6 to 6.0 mm *6	310 ⁺¹ ₀ $\times$ 221 ⁺¹ ₀ mm (horizontal $\times$ vertical) Panel thickness: 1.6 to 6.0 mm *6	261 ⁺¹ ₀ $\times$ 166 ⁺¹ ₀ mm (horizontal $\times$ vertical) Panel thickness: 1.6 to 6.0 mm *6	197 ^{+0.5} ₀ $\times$ 141 ^{+0.5} ₀ mm (horizontal $\times$ vertical) Panel thickness: 1.6 to 6.0 mm *6
Weight	2.6 kg max.	1.9 kg max.	1.3 kg max.	1.0 kg max.
Degree of protection	IP65 oil-proof type, UL Type 4X *6 (Front-panel controls) To reinstall the NA Unit in a panel, contact your OMRON representative for replacement of the rubber packing.			
Case	Plastic			
Battery life *7	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.)			
RTC	Ambient temperature 25°C: Maximum error of ± 90 seconds per month			
International standards *8	UL61010-2-201/CSA C22.2 NO.61010-2-201: 14 *9 EMC Regulations (2004/108/EC) EN61131-2: 2007 Shipbuilding standards NK IP65, UL Type 4X *6 (Front-panel controls) UL121201, 9th Edition/CSA C22.2 NO.213-2017 UKCA KC KN61131-2 2018 RCM EN61000-6-4: 2007+A1: 2011			

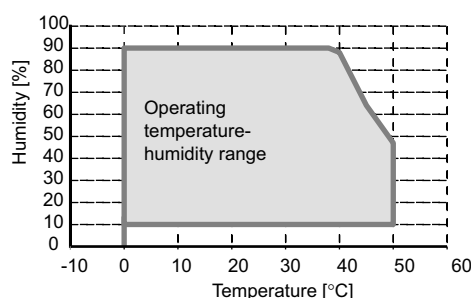
*1. The inrush current value may vary depending on the conditions. When selecting the fuse, circuit breaker, and external power supply unit, carefully think about the operating conditions and select devices with sufficient margins for the characteristics and capacity.

*2. The inrush current is dependent on the input voltage. This current is approximately 5.5 A at 28.8 VDC.

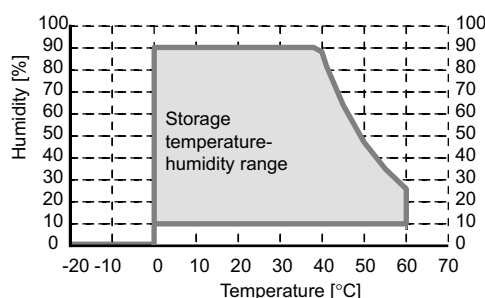
- *3. The ambient operating temperature is subject to the following restrictions, depending on the mounting angle.
- The ambient operating temperature is 0° to 40°C when the mounting angle is 0° or more and less than 45° to the horizontal.
 - The ambient operating temperature is 0° to 50°C when the mounting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



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



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



*6. To conform to UL Type 4X standards, you may have to use the NA-□WATW01 High-pressure Waterproof Attachment (sold separately). When the NA-□WATW01 High-pressure Waterproof Attachment is used, the panel thickness is between 1.6 to 4.5 mm.

*7. The battery is sold separately. Even when a battery is not installed, the RTC can be backed up by a built-in capacitor for a maximum of 10 days.

*8. Check with your OMRON representative or refer to the following OMRON website for the latest information on the applicable standards for each model: www.ia.omron.com.

*9. Use power supply Class 2 to conform to UL Standards.

NA series

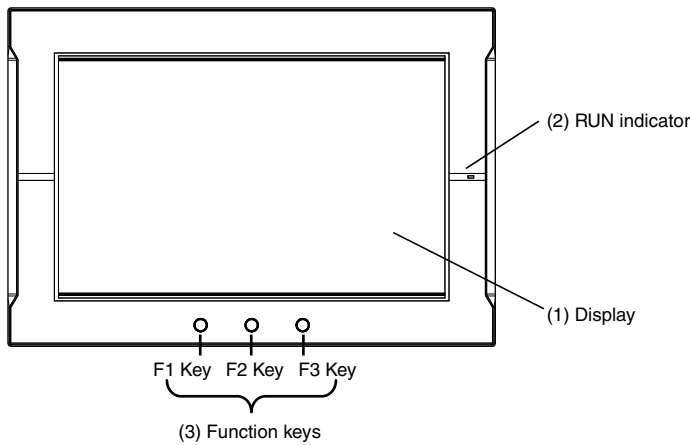
Version Information

NA series and Programming Devices

NA series		Corresponding unit versions/version	
Model	NA system version	NJ/NX/NY-series Controller NX701-□□□□ NY512-□□□□ NX502-□□□□ NY532-□□□□ NX102-□□□□ NJ501-□□□□ NX1P2-□□□□ NJ301-□□□□ NX-CSG320 NJ101-□□□□	Sysmac studio
NA5-□□□□□□-V2	1.18 or later	NX502: 1.60 or later	1.64 or higher
		NX-CSG320: 1.00 or later	
		NX102: 1.30 or later	
		NX1P2: 1.13 or later NY512: 1.12 or later NY532: 1.12 or later NX701: 1.10 or later NJ101: 1.10 or later NJ501: 1.01 or later NJ501 Database Connection: 1.05 or later NJ301: 1.01 or later	

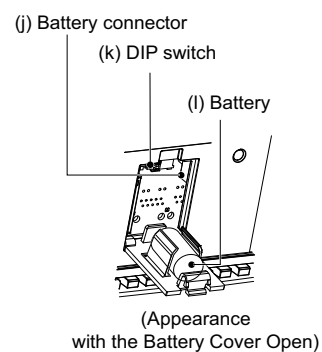
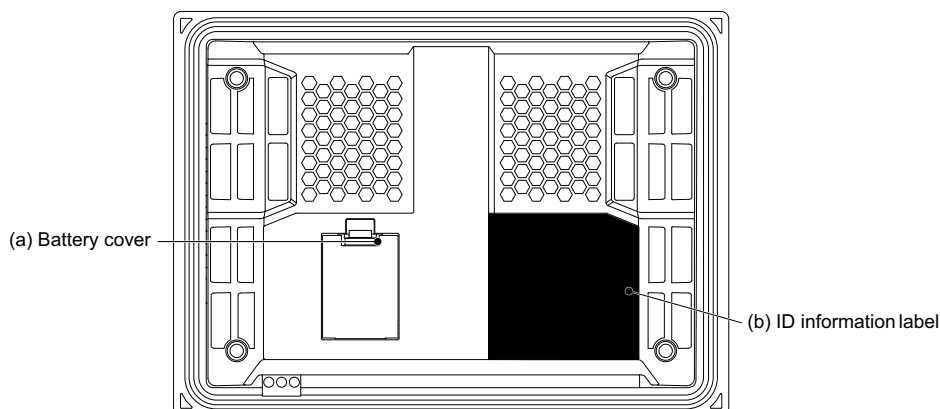
Components and Functions

Front Panel

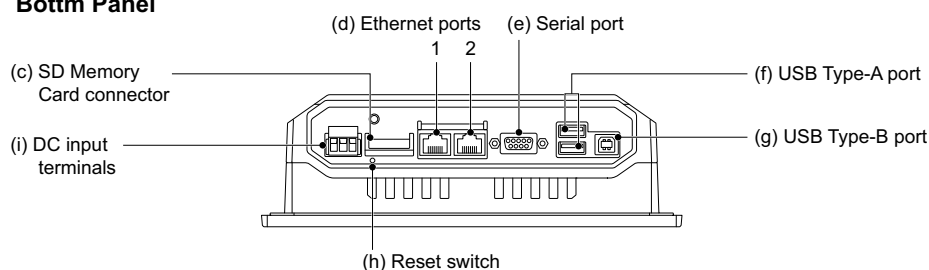


No.	Name	Description
(1)	Display	The entire display is a touch panel that also functions as an input device.
(2)	RUN indicator	The status of the indicator changes according to the status of the NA.
(3)	Function keys	There are three function keys: F1, F2, and F3.  : F1 Key,  : F2 Key,  : F3 Key You can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

Back Panel



Bottom Panel



No.	Name	Description
(a)	Battery cover	Open this cover to replace the Battery.
(b)	ID information label	You can check the ID information of the NA Unit.
(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	Connect the connected device
(f)	USB Type-A port	Connect this port to a USB Memory Device.
(g)	USB Type-B port	Connect the Sysmac Studio or other devices.
(h)	Reset switch	Use this switch to reset the NA Unit.
(i)	DC input terminals	These are the power supply terminals. Connect the accessory power supply connector and supply power.
(j)	Battery connector	Connect the connector on the backup Battery here.
(k)	DIP switch	Used for system recovery. (The DIP switch is on a PCB that is accessed by opening the Battery cover.) In other cases, do not change any of the factory settings of the pins on the DIP switch.
(l)	Battery	This is the battery to backup the RTC in the NA Unit.

NA series

Supported Devices

NA5-□□□□□□-V2

Manufacturer	Models	Connection method	Communications driver
OMRON	NX102-□□□□ NX1P2-□□□□ NX502-□□□□ NX701-□□□□ NJ501-□□□□ NJ301-□□□□ NJ101-□□□□ NY512-□□□□ NY532-□□□□ NX-CSG320	Built-in EtherNet/IP port	Ethernet
	NX502-□□□□	NX-EIP201	
	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 CJ2M-CPU11/12/13/14/15	CJ1W-EIP21S	
	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	
	CJ2H-CPU64/65/66/67/68 CJ2M-CPU11/12/13/14/15	CJ1W-EIP21S	
	CS1G-CPU42H/43H/44H/45H CS1H-CPU63H/64H/65H/66H/67H	CS1W-ETN21 CS1W-EIP21	
	CS1G-CPU43H/44H/45H CS1H-CPU63H/64H/65H/66H/67H	CS1W-EIP21S	
	CS1D-CPU65H/67H/67HA/68HA/44SA/67SA	CS1W-ETN21 CS1D-ETN21D CS1W-EIP21 CS1W-EIP21S	
	CP1L-EL□□□□-□ CP1L-EM□□□□ CP2E-N□□□□-□	Built-in Ethernet port	
	CP1H-□□□□□-□ CP1L-L□□□□□-□	CP1W-CIF41	
	CK3E-1□10 CK3M-CPU1□1	Built-in Ethernet port	Modbus/TCP
	CS1G-CPU42H/43H/44H/45H CS1H-CPU63H/64H/65H/66H/67H CS1D-CPU65H/67H/67HA/68HA/44SA/57SA	Built-in RS-232C port CS1W-SCB21-V1 CS1W-SCB41-V1 CS1W-SCU21-V1 CS1W-SCU31-V1	Host Link
	CJ2H-CPU64/65/66/67/68(-EIP) CJ2M-CPU11/12/13/14/15/31/32/33/34/35	Built-in RS-232C port CJ1W-SCU22 CJ1W-SCU32 CJ1W-SCU42	
	CP1L-□□□□□□-□ CP1H-□□□□□□-□ CJ2M-CPU31/32/33/34/35	CP1W-CIF01 CP1W-CIF11 CP1W-CIF12-V1	
	CP2E-E□□□□□-□ CP2E-S□□□□□-□	Built-in RS-232C port	

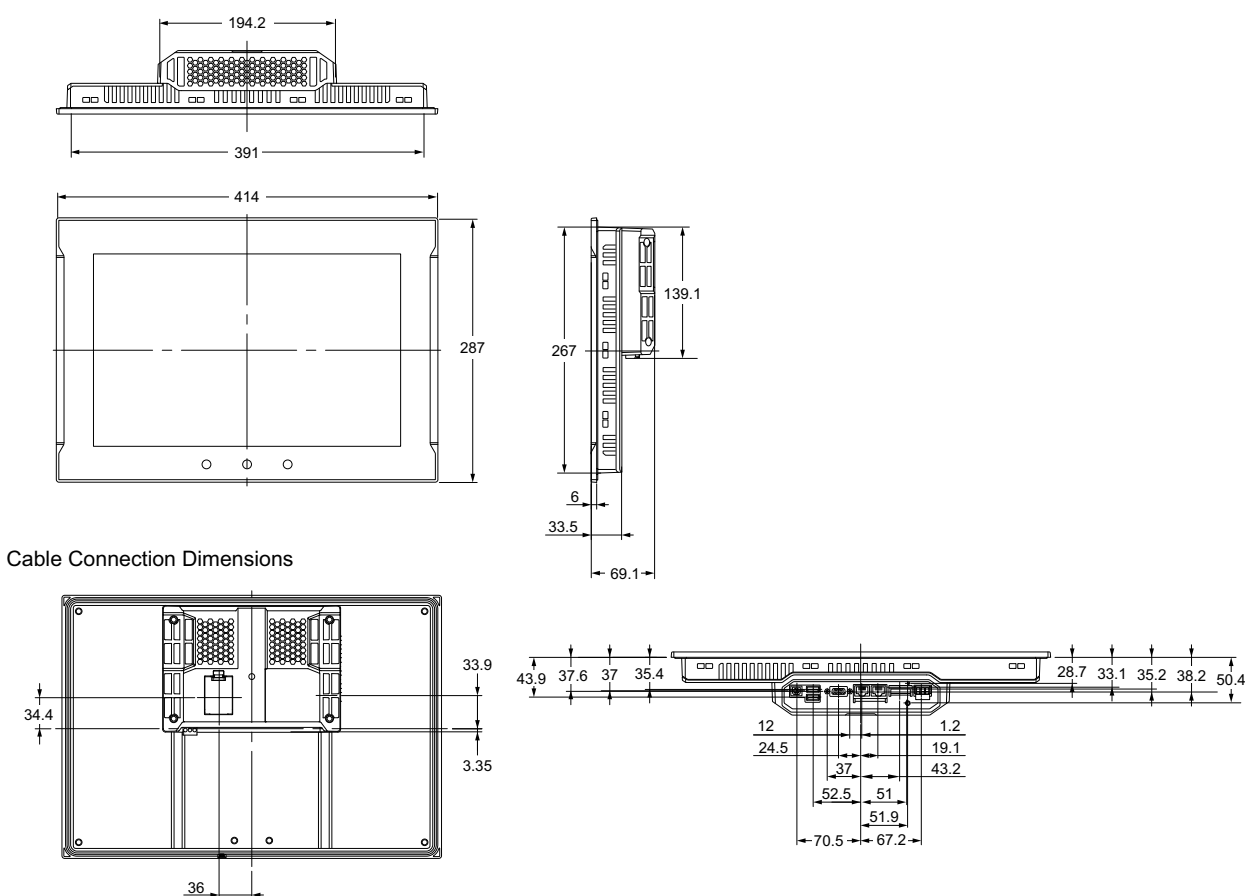
Note: 1. Including models no longer available to order.

NA-RTL□□□

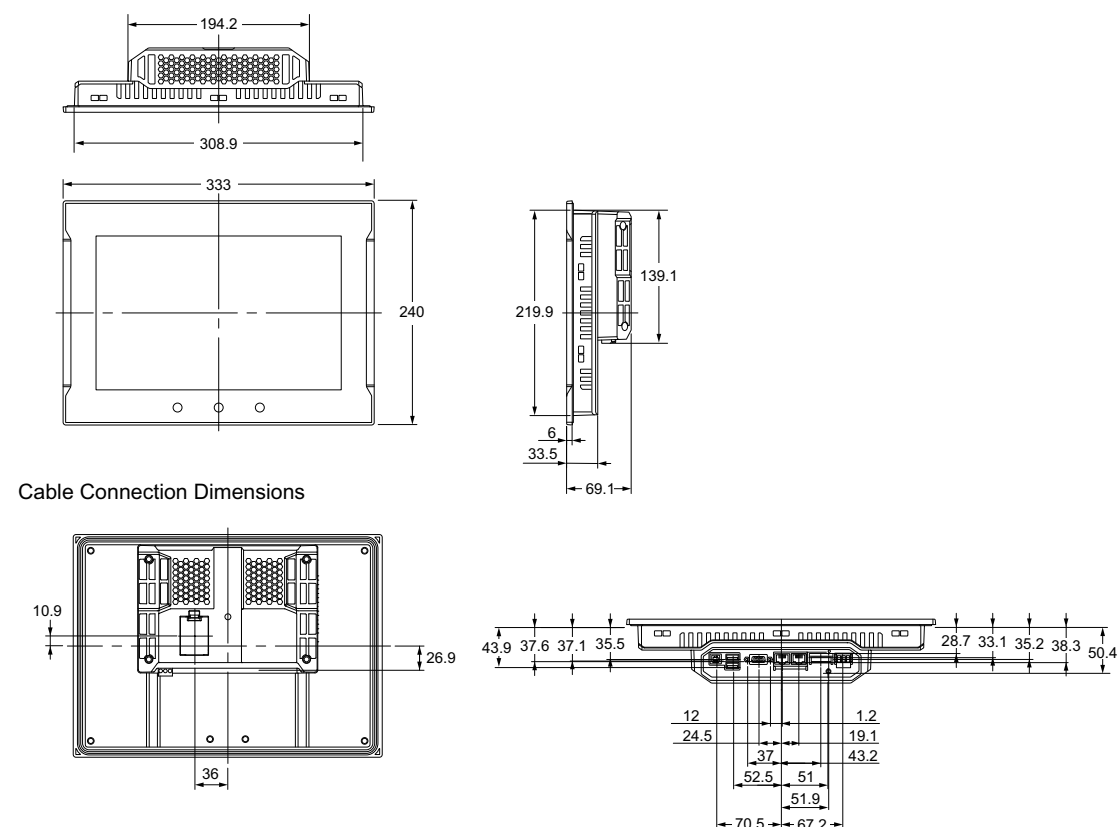
Manufacturer	Models	Connection method	Communications driver
OMRON	NX102-□□□□ NX1P2-□□□□ NX502-□□□□ NX701-□□□□ NJ501-□□□□ NJ301-□□□□ NJ101-□□□□ NY512-□□□□ NY532-□□□□ NX-CSG320	Built-in EtherNet/IP port	Ethernet
	NX502-□□□□	NX-EIP201	

Dimensions

NA5-15W101S-V2/-15W101B-V2

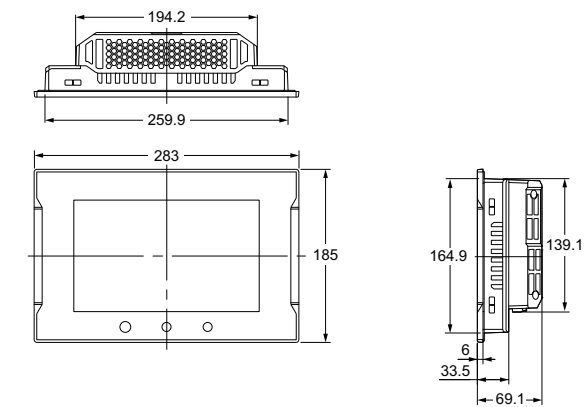


NA5-12W101S-V2/-12W101B-V2

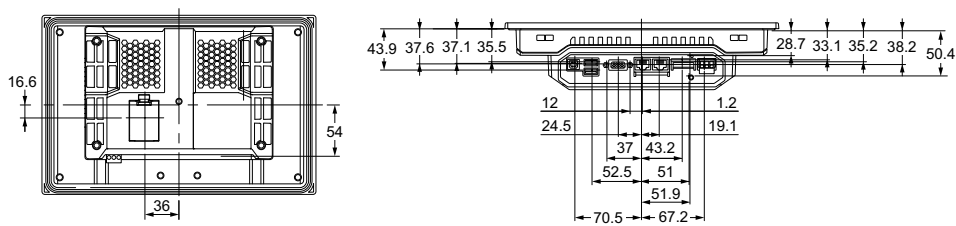


NA series

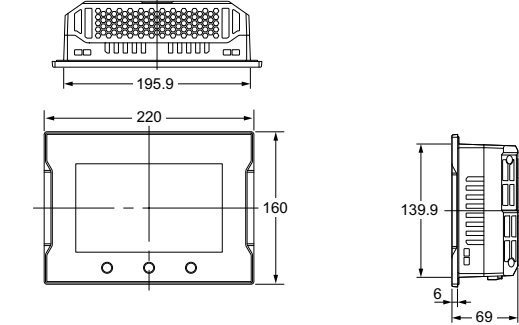
NA5-9W001S-V2/-9W001B-V2



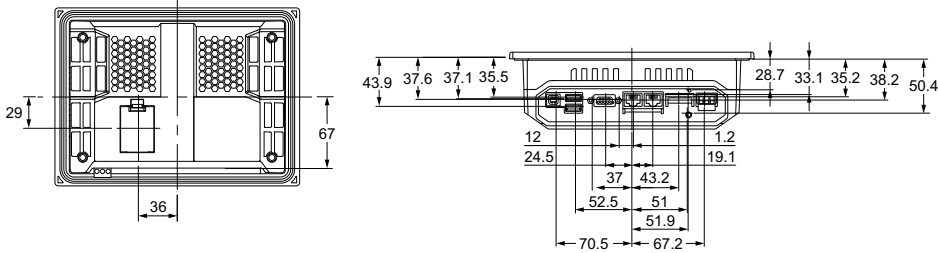
Cable Connection Dimensions



NA5-7W001S-V2/-7W001B-V2



Cable Connection Dimensions



Related Manuals

Cat. No.	Model number	Manual
V128	NA5-15□101□-V2 NA5-12□101□-V2 NA5-9□001□-V2 NA5-7□001□-V2	NA-series Programmable Terminal Hardware (-V2) User's Manual
V118	NA5-15□101□ (-V□) NA5-12□101□ (-V□) NA5-9□001□ (-V□) NA5-7□001□ (-V□) NA-RTL□	NA-series Programmable Terminal Software User's Manual
V119	NA5-15□101□ (-V□) NA5-12□101□ (-V□) NA5-9□001□ (-V□) NA5-7□001□ (-V□) NA-RTL□	NA-series Programmable Terminal Device Connection User's Manual
V120	NA5-15W□□□□ NA5-12W□□□□ NA5-9W□□□□ NA5-7W□□□□	NA-series Programmable Terminal Startup Guide
V126	NA-RTL□□□	NA-series Programmable Terminal Soft-NA User's Manual

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