

**Programmable Terminal** 

# **NV Series**

# **Compact and Simple, Extremely High Cost Performance**



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# The Best PT for Package PLCs — NV

The NV Series of compact Programmable Terminals meet the basic needs for enhanced visibility, simplicity, and cost, and they go even further to provide superior PLC compatibility, easy operation, and cost performance.

# Visibility **Beautiful, Easy-to-understand Displays**

# Instantly know the system status It is obvious in three color LED backlight

The monochrome models provide three backlight colors to perform status displays.For example, use green for normal



## **Easy Visual Recognition** True Type Fonts for Flexible Screen Designs

You can use True Type fonts in a wide range of sizes from 10 to 240 dots to flexibly design beautiful screens. \* The maximum font size depends on the model.

True Type Fonts You can select the best Windows® the desired emphasize screen

MSGoth, MSPGoth, MS Serif Arial Courier New Any size of many Windows Fonts Can be Used

1115-

210

1 2

START

STOP

1 2 0

0

Line A Progress Mon

Wash

Cut

Pack

# Variation A Lineup of 14 Models That Form a New Standard for Small





66

# stands for the three benefits

Value	Easy design work and superior PLC compatibility
Visiblity	Beautiful, easy-to-understand displays
Variation	A lineup of ten 3-inch models for easy selection



# Value Easy Designing

The slim design of NV-series PTs requires very little installation space.

## Vertical Installation

The PT can be installed vertically to enable more applications. This enables more flexible designs.



## Global Application Multi-language Support and Safety Standard Compliance

You can switch parts labels and languages. Record up to sixteen character strings in different languages and change all labels at the same time. Switching the language during operation is also very easy. International safety standards have also been met so that you can easily export equipment or transport equipment overseas.



# Handle Devices from Various Manufacturers Global Multivendor Support

You can connect the PT to OMRON or Mitsubishi Electric PLCs or to PLCs from many other global manufacturers. This lets you connect the NV-series PTs without changing the PLC. You can easily use a different PLC manufacturer for each project.



OMRON, Mitsubishi Electric, Keyence, Hitachi, Allen-Bradley, Siemens, etc.

PTs

The lineup includes compact and horizontal models from 3.8-inch to 4.6-inch and QVGA models. Select the size and price that are best for each system.



Display colors : Monochrome ,

- 2 grayscale levels or 8 grayscale levels • 320 × 120 dots
- Backlight :
- LEDs, 3 colors (white, pink, and red)









Display colors : 4096 colors
320 × 240 dots
Backlight : White LED



# **Easy Connection to External Devices**





Data required for

operation is backed up

NV3W-MR 0(L)-V1 Monochrome TFT



### **Battery-free Operation**

Internal Storage of Required Data in the PT An NV-series PT can be operated without a battery.

No maintenance battery is required.

- Data Backed Up without a Battery
- NV Configuration Recipes
- · Base Screens
- · Write Address Data Keyboard Screens
  - · Flow Display Data

## Screen Conversion

The NV-Designer version 2.0 or higher provides the function to convert NV3W screens into NV3W-V1 screens.

Resource Report	の本白豆  福福市	New NV Model
Base Screen Memory Usage NV-Designer Configuration	<b>6</b> (\$	NV3W-V1
Convert	PLC Model Convert	
Replace Fixed (NV-Designer) Font	NV Model Convert	(240(W) x 96(H) ) Monochrome



#### Compatibility Supply Power from the PLC NV3W-V1 Only

With 5-V NV3W-V1 models, 5-V can be supplied from the PLC via the PLC Connecting Cable. This reduces wiring work and eliminates the need for a special power supply for the PT.

#### Supplying 5-V from the PLC



\*An XW2Z-200T-4 PLC Connecting Cable is required to supply power from the PLC. \*With 24-V PTs, power must be supplied from an external power supply.

### **Transfer Ladder Programs and** PT Screens without Changing the Cable



Ladder programs can be transferred, debugged, or monitored for an OMRON PLC from the CX-Programmer running on a computer connected to the NV-series PT while communicating through the NV-series PT.



\*Refer to Support Software on page 7 for applicable versions of the CX-One

# for Easy Maintenance



#### High-speed Screen Transfers with Commercially Available USB Cable

A USB interface is provided to effectively use computer software environments.Screens that are created on the computer can be quickly transferred to the PT using a commercially available USB cable (Mini-B).



 PLC
 Commercially available USB cable (TYPE-B)

 PLC
 VPDesigner

 Serial Communications/Power Supply Connector
 Nv-Designer

 This connector supplies 24 VDC.
 Topofor Ladder Programs and Commercially

# SD Memory Card

An SD memory card slot (2 GB max.)\* is provided as a standard feature

Use SD memory cards to easily back up and restore screen data.

\*The capacity of the SD memory card is 32 MB to 1 GB for PT system program version 1.0  $\square$  .



# Transfer Ladder Programs and Compatibility PT Screens without Changing the Cable

## USB1.1

### High-speed Screen Transfers with Commercially Available USB Cable

A USB interface is provided to effectively use computer software environments.Screens that are created on the computer can be quickly transferred to the PT using a commercially available USB cable (TYPE-B).

# Programmable Terminals NV-Series

# Compact and Simple, Extremely High Cost Performance

- The lineup includes compact and horizontal models from 3.8-inch to 4.6-inch and QVGA models.
- Trur Type Fonts for Flexible Screen Designs.
- Space-saving Installation.
- Multi-language Support and Safety Standard Compliance.



Personal computer

# **System Configuration**

# NV3W-V1



# NV4W/NV3Q



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# **NV-series Ordering Information**

### **Programmable Terminals**

Dreduct name			Specifications	5		Model
Product name	Screen size	Number of dot	Communications	Power supply voltage	Backlight	Model
3.8-in, TFT monochrome			RS-232C	5 VDC	LEDs, 3 colors	NV3W-MG20L-V1
	$240\times96\ dots$	RS-232C	24 VDC	(green, orange, and	NV3W-MG20-V1	
			RS-422A/485	24 VDC	red)	NV3W-MG40-V1
NV3W-V1			RS-232C	5 VDC	LEDs, 3 colors	NV3W-MR20L-V1
	3.8-in, TFT	3.8-in, TFT 240 × 96 dots	RS-232C	24 VDC	(white, pink, and red)	NV3W-MR20-V1
monochiome	monocimonic		RS-422A/485	24 VDC		NV3W-MR40-V1
4.6-in, TFT monochrome	4.6-in, TFT	6-in TFT	RS-232C	24 VDC	LEDs, 3 colors	NV4W-MG21
	220 × 120 dots	RS-422A/485	24 VDC	(green, orange, and red)	NV4W-MG41	
NV4W	4.6-in, TFT 320 × 120 dots		RS-232C	24 VDC	LEDs, 3 colors	NV4W-MR21
		RS-422A/485	24 VDC	(white, pink, and red)	NV4W-MR41	
	3.6-in, TFT 320 × 240 dot	320 × 240 dots	RS-232C	24 VDC	LEDs, 3 colors	NV3Q-MR21
moi	monochrome		RS-422A/485	24 VDC	(white, pink, and red)	NV3Q-MR41
NV3Q	3.6-in, TFT 320 × 240 dots	320 × 240 dots	RS-232C	24 VDC		NV3Q-SW21
	color	(QVGA)	RS-422A/485	24 VDC	White LED	NV3Q-SW41

#### **Programming Devices**

Product name	Specifications	Number of licenses	Media	Model
FA Integrated Tool Package CX-One Lite Ver.4.□	CX-One Lite is a subset of the complete CX-One package that provides only the Support Software required for micro PLC applications. *1 CX-One Lite runs on the following OS. Windows 7 (32-bit/64-bit version) / Windows 8 (32-bit/64-bit version) / Windows 8.1 (32-bit/64-bit version) / Windows 10 (32-bit/64-bit version) CX-One Lite Ver. 4. includes NV-Designer Ver.1.	1 license	DVD	CXONE-LT01D-V4
FA Integrated Tool Package CX-One Ver. 4.⊡	CX-One is a comprehensive software package that integrates the Support Software for OMRON PLCs and components. *2 CX-One runs on the following OS. Windows 7 (32-bit/64-bit version) / Windows 8 (32-bit/64-bit version) / Windows 8.1 (32-bit/64-bit version) / Windows 10 (32-bit/64-bit version) CX-One Ver. 4. includes NV-Designer Ver.1.		DVD	CXONE-AL01D-V4

Note: 1. NV-Designer version 2.0 or higher is required to use the NV3W-V1.

NV-Designer version 1.0 or higher is required to use the NV3Q.

NV-Designer version 1.1 or higher is required to use the NV4W.

2. The CX-One and CX-One Lite cannot be simultaneously installed on the same computer.
\*1. CX-One Lite Ver.4. provides the following Support Software : Micro PLC Edition CX-Programmer Ver.9. , CX-Integrator Ver.2. , Switch Box Utility Ver.1. CX-Simulator Ver.1. , CX-Drive Ver.2. , CX-Designer Ver.3. , NV-Designer Ver.1. or higher, CX-Thermo Ver.4. , CX-ConfiguratorFDT Ver.1. , Network Configurator Ver.3. , and CX-Server Ver.4.

\*2. For details, refer to the CX-One Catalog (Cat. No : R134).

**\*3.** Multi licenses (3, 10, 30, or 50 licenses) and DVD media without licenses are also available for the CX-One.

### **Options (Sold separately)**

Product name		Specifications		Model	
PT-to-PLC Connecting Cable		For the NV3W with 5-V power (NV3W-MG20L-V1/MR20L-V1 only)	Length: 2m	XW2Z-200T-4 *1	
		For the NV3W-V1, NV4W, and NV3Q Length: 2m		XW2Z-200T-3	
		For the NV3W-V1, NV4W, and NV3Q	Length: 5m	XW2Z-500T-3	
Den anderen in a		For the NV3W	Length: 3m	NV-TOL-3M	
Programming Device Connecting Cable	USB-Serial Conversion Cable	For the NV3W Use this Cable together with the NV-TOL-3M to connect to a USB connector on the computer. Note : The enclosed USB driver must be installed.		CS1W-CIF31	
Battery *2		For the NV4W and NV3Q		NV-BAT01	
		For the NV3W-V1, contains 10 sheets		NV3W-KBA04-V1	
Display Protective Sheets		For the NV4W, contains 10 sheets	NV4W-KBA04		
		For the NV3Q, contains 10 sheets		NV3Q-KBA04	
Attachment		NP3 Series to NV3Q Series		NV3Q-ATT02	

 Note: For NV3W-V1 and NV4W, use commercially available USB cable (Mini B). For NV3Q, use commercially available USB cable (TYPE-B).

 \*1. If the XW2Z-200T-4 Cable is used with the NV3W-V1, 5 V can be supplied from the CS/CJ/CP-series PLCs instead of from an external power supply. Refer to the NV-series PT Setup Manual (Cat.No V103) for details.

 \*2. Cannot be used for the NV3W-V1.

# **NV-series**

# **Specifications**

## **General Specifications**

Item	Specifications				
Model	NV3W-M20-V1/M40-V1	NV3W-M□20L-V1	NV4W-M21/M41	NV3Q-MR□1	NV3Q-SW□1
Rated power supply	24 VDC	5 VDC	24 VDC		
Operating voltage range	21.6 to 26.4 VDC	4.5 to 5.5 VDC	21.6 to 26.4 VDC		
Current consumption	1.9 W max. (80 mA max.)	1 W max. (200 mA max.)	1.7 W max. (70 mA max.)	2.4 W max. (100 mA max.)	3.6 W max. (150 mA max.)
Ambient operating temperature	0 to 50 °C				
Ambient operating humidity	20% to 85% (with no condensation)				
Ambient storage temperature	-20 to 60 °C				
Ambient storage humidity	10% to 85% (with no condensation)				
Dielectric strength	Between the power supply terminals and the case 500 VAC for 1 min with a cutoff current of 10 mA (at initial state)				
Insulation resistance	Between the power supply terminals and the case 100 M $\Omega$ (at 500 VDC) (at initial state)				
Vibration resistance	5 to 8.4 Hz, 3.5-mm single amplitude, 8.4 to 150 Hz, 9.8 m/s <sup>2</sup> , 10 times each in X, Y, and Z directions (1 octave/min)		5 to 9 Hz, 3.5-mm single amplitude, 9 to 150 Hz, 9.8 m/s <sup>2</sup> , 10 times each in X, Y, and Z directions (1 octave/min)	10 to 55 Hz with 0.75-amp Y, and Z directions, 1 swee	litude for 10 min each in X, ep per min
Shock resistance	147m/s <sup>2</sup> 3 times each in X,	Y, and Z directions	l.	98m/s <sup>2</sup> 4 times each in X,	Y, and Z directions
Noise immunity	1,000 Vp-p with pulse width	ns of 50 ns and 1 $\mu$ s betwee	n power supply terminals (vi	a simulator)	
Resistance to environment	For NV3Q IP65 (at initial state), For NV3W-V1, NV4W IP67 (at initial state) Dust proof and drip proof only from the front of the panel (using Waterproof Packing at the contact surface with the panel) Replace the Waterproof Packing each time you reinstall the PT.				
Battery life expectancy	-	-	Battery life expectancy: 5 y	rr (at 25 °C) *	Battery life expectancy: 3 yr (at 25 °C) *
Safety standards	UL 508, EC Directives and	KC	UL 508 and EC Directive	S	
Weight	170 g max.		240 g max.		210 g max.

\* The SRAM (internal RAM) is backed up by the battery. If backing up the data is required, purchase the NV-BAT01 Battery separately.

#### **Performance Specifications**

	Item	Specifications				
Model		NV3W-MGOC(L)-V1/MROC(L)-V1	NV4W-M_21/M_41	NV3Q-MR 1/ SW 1		
Display device		TFT monochrome LCD *8	TFT monochrome LCD *9	NV3Q-MR: TFT monochrome LCD *6 NV3Q-SW: TFT color LCD *7		
Number of dots		$240 \times 96$ dots (H $\times$ V)	$320 \times 120 \text{ dots } (\text{H} \times \text{V})$	$320 \times 240 \text{ dots } (H \times V)$		
Effective dis	splay size	size $88.5 \times 35.4 \text{ mm} (H \times V)$ $109 \times 41 \text{ mm} (H \times V)$ $70.6 \times 52.9 \text{ mm} (H \times V)$				
Service Life	)	50,000 hours min. *1				
Backlights		NV3W-MG-V1 : LED backlights, 3 colors (green, orange, and red) NV3W-MR-V1 : LED backlights, 3 colors (white, pink, and red)	NV4W-MG : LED backlights, 3 colors (green, orange, and red) NV4W-MR : LED backlights, 3 colors (white, pink, and red)	NV3Q-MR: LED backlights, 3 colors (white, pink, and red) NV3Q-SW: LED backlight, 1 color (white)		
	Method	Analog resistive membrane type				
Operating force		0.8 N max.				
Touch switches	Life expectancy	100 million operations min. (at 25 °C)				
Switches	Switches	50 max. per screen *2				
	Size	8 dots × 8 dots min. *3				
External memory		_	SD memory card (32 MB to 2 GB) *4 Manufacturers for which operation has been confirmed: Panasonic SD standard *5			
Host communic ations	COM Port	NV3W-M□20(L)-V1 :         RS-232C (not isolated), Transmission         distance: 15 m, Connector : 8-pin         NV3W-M□40-V1 :         RS-422A/485 (not isolated),         Transmission distance: 500 m,         Connector : 8-pin	NV4W-M⊡21: RS-232C (not isolated), Transmission distance: 15 m, Connector:8-pin NV4W-M⊡41: RS-422A/485 (not isolated), Transmission distance: 500m, Connector: 8-pin	NV3Q-221 : RS-232C (not isolated), Transmission distance: 15 m, Connector: 8-pin NV3Q-241 : RS-422A/485 (not isolated), Transmission distance: 500 m, Connector: 8-pin		
Support Software communic ations	USB port	USB 1.1 Mini-B, Transmission distance: 5 m max.		USB 1.1 TYPE-B, Transmission distance: 5 m max.		
Applicable Software	Support	NV-Designer version 2.0 or higher (NV-Designer can be upgraded to version 2.0 by using the CX-One Auto-update.)	NV-Designer version 1.1 or higher (Included with CX-One version 4.03 or in CX-One Lite version 4.03.)	NV-Designer version 1.0 or higher (Included with CX-One version 3.2 or in CX-One Lite version 4.0.)		

\*1. This is the estimated time before brightness is reduced by half at room temperature and humidity. It is not a guaranteed value.

\*2. The estimate applies to operation when only custom switches are placed on the screen.

\*3. This value does not include 1-dot box of frame line.

\*4. The capacity of the SD memory card is 32 MB to 1 GB for PT system program version 1.0 .

 \*5. SD memory cards are shipped pre-formatted from the factory, so there is normally no need to format them. If an SD memory card is formatted with the standard formatting utility provided with a personal computer, its file system will not conform to the SD memory card standard. Always use the formatting software provided by SD memory card makers.

\*6. The display device of NV3Q-MR□1 of the Lot No. 160430 or earlier is STN, and the Lot No. 160501 or later is TFT.

**\*7.** The display device of NV3Q-SW□1 of the Lot No. 110999 or earlier is STN, and the Lot No. 111000 or later is TFT. **\*8.** The display device of NV3W-MG□\_(L)-V1/MR□\_(L)-V1 of the Lot No. 161231 or earlier is STN, and the Lot No. 170101 or later is TFT.

\*9. The display device of NV4W-M 21/M 41 of the Lot No. 170221 or earlier is STN, and the Lot No. 170222 or later is TFT.

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# **NV-series**

(Unit: mm)

# **Applicable PLCs**

Company	Series	Company	Series
OMRON	CP Series	Mitsubishi Electric	FX Series
OMRON	CJ Series	Mitsubishi Electric	Q Series
OMRON	CS Series	Mitsubishi Electric	A Series
OMRON	C Series	Panasonic Electric Works	FP Series
OMRON	CVM1/CV Series	Toshiba Machine	TC mini Series
OMRON	Temperature Controllers EJ1 Series	Keyence	KV Series, KV Nano Series
Yokogawa Electric	FA-M3 Series	Allen-Bradley Models that support DF protocol	MicroLogix
Hitachi	EH-150EHV Series	Allen-Bradley Models that support DF protocol	SLC-500 Series
Hitachi	EH150 Series	Siemens	S7-200 Series
Hitachi	MICRO-EH Series	LG	MASTER-K Series
Hitachi	Web Controller	Modbus	Models that support RTU protoco

Note: Refer to "NV Series Programmable Terminals Host Connection Manual (Cat.No V105)" which is included in NV-Designer for information on combination use with each PLC Series.

# Dimensions



#### NV3Q



# **Related Manuals**

Cat. No	Model	Name
V103	NV3W-V1, NV4W, NV3Q	NV Series Programmable Terminals Setup Manual
V104	NV3W-V1, NV4W, NV3Q, NV-Designer	NV Series Programmable Terminals Programmig Manual
V105	NV3W-V1, NV4W, NV3Q	NV Series Programmable Terminals Host Connection Manual

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#### **OMRON** Corporation **Industrial Automation Company** Tokyo, JAPAN

#### Contact: www.ia.omron.com

Regional Headquarters OMRON EUROPE B.V. Wegalaan 67-69, 2132 JD Hoofddorp The Netherlands Tel: (31)2356-81-300/Fax: (31)2356-81-388

**OMRON ELECTRONICS LLC** 2895 Greenspoint Parkway, Suite 200 Hoffman Estates, IL 60169 U.S.A Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

OMRON ASIA PACIFIC PTE. LTD. No. 438A Alexandra Road # 05-05/08 (Lobby 2), Alexandra Technopark, Singapore 119967 Tel: (65) 6835-3011/Fax: (65) 6835-2711

OMRON (CHINA) CO., LTD. Room 2211, Bank of China Tower, 200 Yin Cheng Zhong Road, PuDong New Area, Shanghai, 200120, China Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200 Authorized Distributor:

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