Human Machine Interface Terminals NS Series

Bright Touchscreens Offer Real Value and Flexible Application Provides the functions sought in new displays



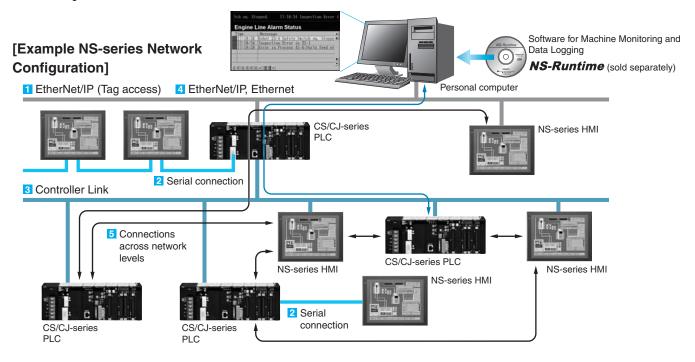
Features

- 5.7 to 15 inch sizes are available.
- A hand-held version of the NS5 is now available to perform operations at the production site. The NS-series HMI's have a complete set of functions that can be used at the production site.
- The Smart Active Parts (SAP Library) makes it easy to connect to OMRON PLCs and components, OMRON provides a development environment that requires with no programming and no screen designing.
- When an error occurs in a Unit in the OMRON PLCs, the Troubleshooter SAP Library provides an easy-tounderstand explanation of the cause of the error as well as the countermeasures.
- Ladder Monitor come as a Standard Feature. The ladder program can be monitored onsite without a laptop!Ladder monitor lets you monitor PLC program status, search for addresses or instructions, monitor multiple I/O points, and much more.
- Provides the FA integrated tool package "CX-One" for a Screen Design Software Integrated Simulation come as a Standard Feature. The integrated simulation function simulates ladder programs and screen data simultaneously even without the actual hardware.
- Screens support 42 languages and the Support Software supports eight. System messages can be displayed in eight languages.
- Single Port Multi Access (SPMA) come as a Standard Feature. The ladder program and screen data can be transferred from a single port!
- Connectable PLCs and devices appear one after another. Has become connectable with the PLCs of Mitsubishi Electric Corporation and the Inverters of OMRON Corporation.

NS Series

Network

Provides serial NT Link communications supporting both 1:1 and 1:N connections. The NT Link has more efficient communications than Host Link and its capabilities are especially apparent in applications with multiple HMIs connect to the PLC. The NS-series HMIs can also support communications with multiple PLCs and multiple NS-series HMIs through Controller Link and Ethernet connections, so the network can be configured freely to match the requirements and scale of the application. In addition, using the NS-Runtime makes it possible to monitor machine status and log data from the host.



Configuration of CJ2 series, NJ series and NX series

1 EtherNet/IP Connection (Tag accesses)

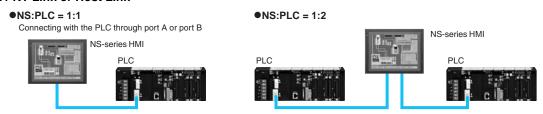
If an Ethernet-compatible NS-series HMI is used, the HMI can connect to a Controller with built-in EtherNet/IP and an Option Unit is not needed to connect at the HMI.



Configuration of CS series, CJ series and CP series

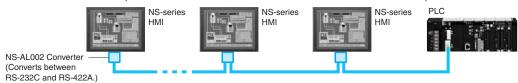
2 Serial connection

1:1 NT Link or Host Link



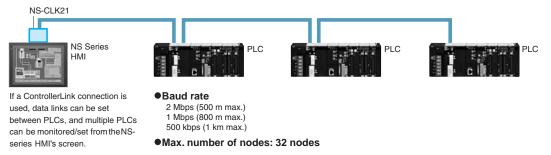
1:N NT Link

●NS:PLC ratio = 8:1 max. Up to 8 NS-series PTs can be connected to each of the PLC's RS-232C/RS-422A ports.



3 Controller Link Connection

The HMI can be connected to an OMRON Controller Link network by mounting a Controller Link Interface Unit.



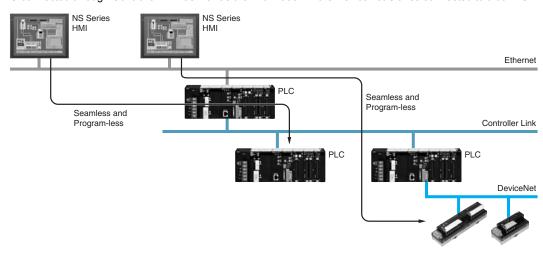
4 EtherNet/IP or Ethernet Connection

If an Ethernet-compatible NS-series HMI is used, the HMI can connect to a PLC with an Ethernet Unit and an Option Unit is not needed to connect at the HMI.



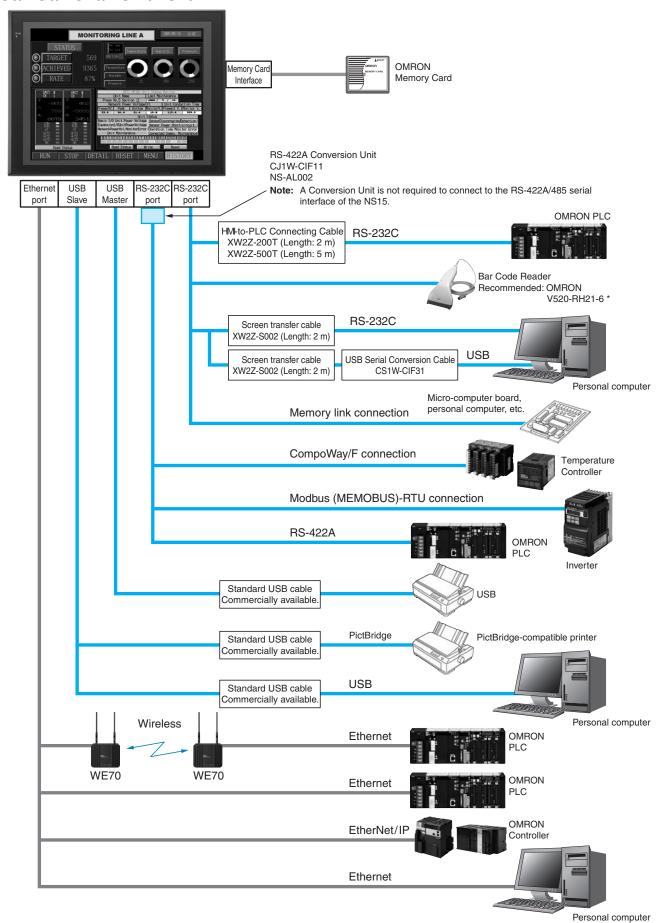
Connections Over Network Levels

The NS-series HMIs can connect to a variety of devices in the network, through as many as 3 network levels. For example, if SAP (Smart Active Parts) are being used, an NS-series HMI connected by Ethernet can be used to monitor the information in a PLC connected through Controller Link as well as the information in the DeviceNet Slaves connected to that PLC.



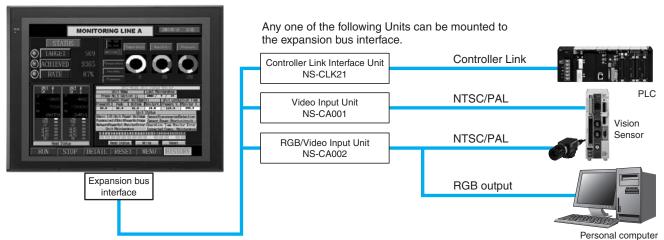
System Configuration

NS5/NS8/NS10/NS12/NS15



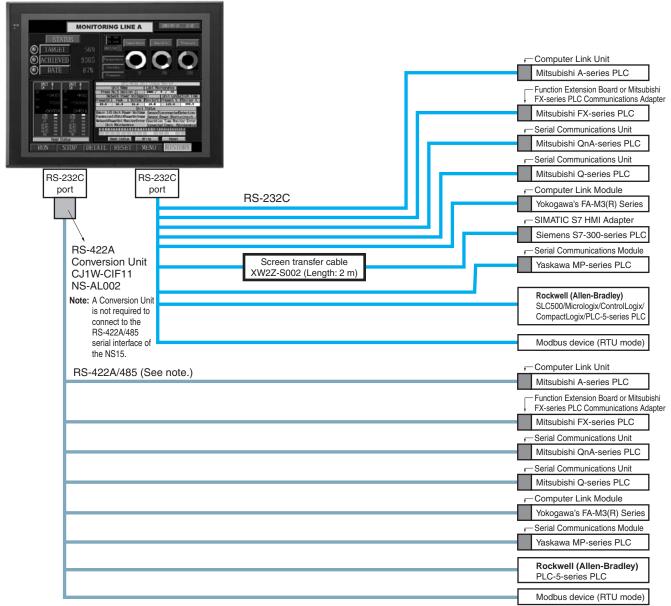
*Bar Code Reader (V520-RH21-6) was discontinued at the end of August 2016.

Expansion Bus Interface



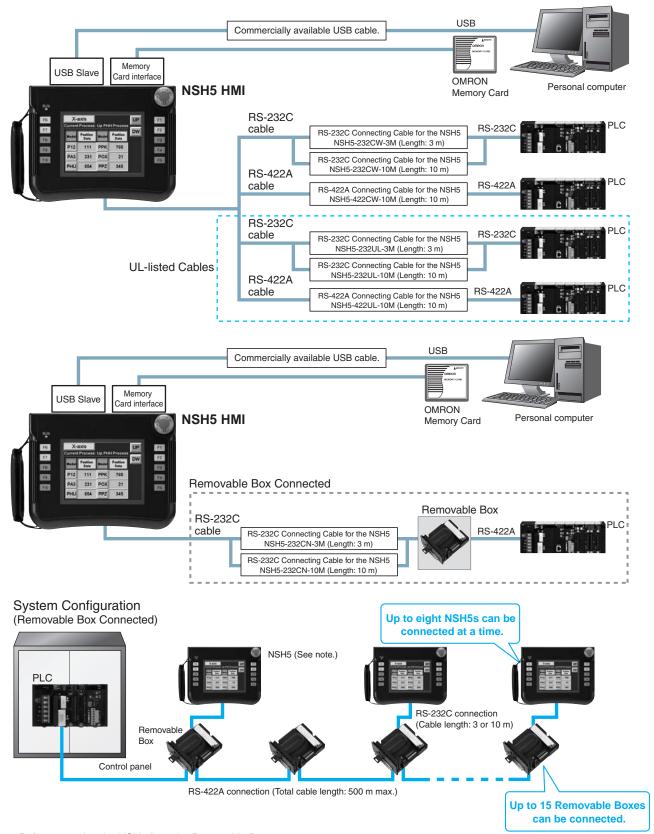
Note: Video Input Units and RGB Video Input Units cannot be used with some models.

Multi-vendor



Note: Whether an RS-422A or RS-485 connection is supported depends on the device that you are connecting to.
For details, refer to the Connectable Devices page or NS-Series Programmable Terminals HOST CONNECTION MANUAL Multivendor Connection (Cat.V092).

NSH5 Hand-held HMI



Note: Before removing the NSH5 from the Removable Box, be sure to first turn OFF the power supply key on the Removable Box.

Ordering Information

International Standards

- The standards are availabled 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, and CE: EC Directives.
- Contact your OMRON representative for further details and applicable conditions for these standards.

Programmable Terminals

Dun dund manne		Specification		Madal	Ot and and a		
Product name	Effective display area	Number of dots	Ethernet	Case color	Model	Standards	
				lvory	NS5-SQ10-V2		
	5.7-inch *2		No	Black	NS5-SQ10B-V2		
	TFT color LED backlight			Ivory	NS5-SQ11-V2		
NOT NO #4		000 040 14	Yes	Black	NS5-SQ11B-V2	UC1, CE,	
NS5-V2 *1	5.7-inch *2	320 × 240 dots		Ivory	NS5-TQ10-V2	N, L, UL Type4	
	5.7-inch "2 High-luminance		No	Black	NS5-TQ10B-V2		
	TFT color		.,	Ivory	NS5-TQ11-V2		
	LED backlight		Yes	Black	NS5-TQ11B-V2		
				Ivory	NS8-TV00-V2		
	8.4-inch *2	0.40 .400 .1 .	No	Black	NS8-TV00B-V2	UC1, CE,	
NS8-V2	TFT LED backlight	640 × 480 dots	.,	Ivory	NS8-TV01-V2	N, L	
			Yes	Black	NS8-TV01B-V2		
		640 × 480 dots		lvory	NS10-TV00-V2		
	10.4-inch *2		No	Black	NS10-TV00B-V2		
NS10-V2	TFT LED backlight		.,	lvory	NS10-TV01-V2		
			Yes	Black	NS10-TV01B-V2		
				lvory	NS12-TS00-V2	UC1. CE.	
	12.1-inch *2		No	Black	NS12-TS00B-V2	N, L,	
NS12-V2	TFT LED backlight	800 × 600 dots	.,	lvory	NS12-TS01-V2	UL Type4	
			Yes	Black	NS12-TS01B-V2		
NO45 VO	15-inch	1004 700 11		Silver	NS15-TX01S-V2		
NS15-V2	TFT	1,024 × 768 dots	Yes	Black	NS15-TX01B-V2		
NSH5-V2 *1	5.7-inch	320 × 240 dots	No	Black (Emergency stop button: Red)	NSH5-SQR10B-V2	UC, CE	
Hand-held	TFT	320 × 240 00ts	INO	Black (Stop button: Gray)	NSH5-SQG10B-V2	UC, CE	

^{*1.} As of July 2008, the image memory has been increased to 60 MB.

NS-Runtime

Product name	Specifications	Media	Model	Standards	
		1license		NS-NSRCL1	
NS-Runtime	NS-Runtime Installer, PDF manual, hardware key (See note.)	3 licenses	CD	NS-NSRCL3	_
		10 licenses		NS-NSRCI 10	

Note: A hardware key (USB dongle) is required for NS-Runtime operation.

System Requirements

	Item	Specifications			
	OS *	Windows 7 (32-bit/64-bit version)/Windows 8 (32-bit/64-bit version)/Windows 10 (32-bit/64-bit version)			
CPU Celeron, 1.3 GHz or higher (Recommended)					
	Memory size	HDD: 50 MB min., RAM: 512 MB min. (Windows 7: 1 GB min.). 50 MB is required for the Runtime alone. (An additional 280 MB is required if CX-Server is not already installed.)			

* Ver. 1.30 or later of NS Runtime do not support Windows XP (Service Pack 3 or higher) and Windows Vista.

^{*2.} Lot No. 15Z0 or later of NS5 color-type models, Lot No. 28X1 or later of NS8 models, Lot No. 11Y1 or later of NS10 models, Lot No. 14Z1 or later of NS12 models, LotNo.31114K or later of NS15 models.

Software

●How to Select Required Support Software for Your Controller

The required Support Software depends on the Controller to connect. Please check the following table when purchasing the Support Software.

Item	Omron PLC System	Omron Machine Automation Controller System
Controller	CS, CJ, CP, and other series	NJ-series and NX-series
Programmable Terminals	NS-series	NS-series with an Ethernet port
Software	FA Integrated Tool Package CX-One	Automation Software Sysmac Studio

●FA Integrated Tool Package CX-One

Tool Package CX-One Ver.4. 64-bit version) / Windows 7 (32-bit/64-bit version) / Windows 8 (32-bit/64-bit version) / Windows 10 (32-bit/64-bit version) / Windows 10 (32-bit/64-bit version)	Number of licenses	Media	Model	Standards	
FA Integrated Tool Package CX-One Ver.4.□	Windows XP (Service Pack 3 or higher, 32-bit version) / Windows Vista (32-bit/64-bit version) / 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	1 license *	DVD	CXONE-AL01D-V4	_

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

Automation Software Sysmac Studio

Please purchase a DVD and required number of licenses the first time you purchase the Sysmac Studio. DVDs and licenses are available individually. Each model of licenses does not include any DVD.

	Specifications				
Product name		Number of licenses	Media	Model	Standards
Our Obudia	The Sysmac Studio provides an integrated development environment to set up, program, debug, and maintain NJ/NX Series CPU Units, NY-series Industrial PC, Controllers and other Machine Automation Controllers, as well as EtherCAT slaves.	- (Media only)	DVD	SYSMAC-SE200D	-
Sysmac Studio Standard Edition Ver.1.□	Sysmac Studio 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)				
	The Sysmac Studio Standard Edition DVD includes Support Software to set up EtherNet/IP Units, DeviceNet slaves, Serial Communications Units, and Support Software for creating screens on HMIs (CX-Designer). For details, refer to the Sysmac Integrated Catalogue (P072).	1 license *	-	SYSMAC-SE201L	_

Note: To connect the NJ5 Controller, NS system version 8.5 or higher is required. CX-Designer version 3.3 or higher is also required. To connect the NJ1/NJ3 Controller, NS system version 8.61 or higher is required. CX-Designer version 3.4 or higher is also required. To connect the NX7 Controller, NS system version 8.9 or higher is required. CX-Designer version 3.64 or higher is also required. To connect the NX1P2 controller, NS system version 8.93 or higher is required. CX-Desiner version 3.70 or higher is also required.
 Multi licenses are available for the Sysmac Studio (3, 10, 30, or 50 licenses).

Cable

Product name	Specifications		Model	Standards
Cable *1	Screen transfer cable for DOS/V (CX-Designer ↔ PT) Length:		XW2Z-S002	-
	USB-Serial Conversion Cable	Length: 0.5 m	CS1W-CIF31	N
	USB relay cable	Length: 1 m	NS-USBEXT-1M	
	RS-422A cable (loose wires + D-Sub 9-pin)	Length: 10 m	NSH5-422CW-10M	_
NSH5 Cables	RS-232C cable (loose wires + D-Sub 9-pin)	Length: 3 m	NSH5-232CW-3M	
	RS-232C cable (loose wires + D-Sub 9-pin)	Length: 10 m	NSH5-232CW-10M	
UL-compliant NSH5 Cable	RS-422A cable (loose wires)	Length: 10 m	NSH5-422UL-10M	
	RS-232C cable (loose wires + relay cable)	Length: 3 m	NSH5-232UL-3M	CU
NOTIO GUDIC	RS-232C cable (loose wires + relay cable)	Length: 10 m	NSH5-232UL-10M	
	HMI connection: 9 pins	Length: 2 m	XW2Z-200T	
HMI-to-PLC	PLC connection: 9 pins	Length: 5 m	XW2Z-500T	
Connecting Cable *2	HMI connection: 9 pins	Length: 2 m	XW2Z-200T-2	
	PLC peripheral port	Length: 5 m	XW2Z-500T-2	
NSH5 Removable Box	RS-232C Cable (connectors)	Length: 3 m	NSH5-232CN-3M	_
Cable	no-2020 Gable (confidence)	Length: 10 m	NSH5-232CN-10M	
NSH5 Removable Box	-		NSH5-AL001	
NSH5 Wall-mounting Bracket	-		NSH5-ATT02	
NSH5 Visor	-		NSH5-ATT01	

^{*1.} Use a standard USB Type A male to Type B type male Cable to connect the NS series HMI to a personal computer (CX-Designer). We recommend that you use a USB cable with a ferrite core attached to ensure stable communications. (Examples: FH-VUAB from OMRON and U2C-BF series (US2-BF□□BK) from ELECOM as of February 2016)
Use a standard USB cable to connect the NS series HMI to a PictBridge-compatible printer. USB cable type depends on the printer.

*2. To connect the NS series HMI to NJ series Controller, using a commercially available 10/100-BASE-TX twisted-pair cable. For detail, refer to the NS series SETUP MANUAL (Cat. No.V083).

Options

Product r	name	Specifications		Model	Standards	
Video Input Unit	and a	Inputs: 4 channels Signal type: NTSC/PAL		NS-CA001	1101 05	
		Input channels: 2 video channels and 1 RGB channel *1 Signal type: NTSC/PAL		NS-CA002	UC1, CE	
Controller Link Unit	k Interface	For Controller Link Communications		NS-CLK21	UC1, CE	
RS-422A Adapter		Transmission distance: 500 m total length Note: Use this model when connecting HMI models without a \ Note: HMI models with the V□ suffix can also be connected.	V□ suffix.	NS-AL002	_	
•		Transmission distance: 50 m total length Note: Only HMI models with a suffix of V□ are connectable. Use the NS-AL002 to connect models without a V□ suffi	х.	CJ1W-CIF11	UC1, N, L, CE	
			NS15	NS15-KBA04		
		Anti-reflection Sheets	NS12/10	NS12-KBA04		
Sheet/Cover *2	(5 surface sheets)	NS8	NS7-KBA04			
		NS5	NT30-KBA04			
Sheet/Cover *2	2		NS12/10	NS12-KBA05		
_		Protective Covers (5 pack) (anti-reflection coating)	NS8	NS7-KBA05		
		(and follower ocaling)	NS5	NT31C-KBA05		
		Protective Covers (1 cover included) (Transparent)	NS15	NS15-KBA05N		
		Protective Covers	NS12/10	NS12-KBA05N	_	
		(5 covers included)	NS8	NS7-KBA05N		
		(Transparent)	NS5	NT31C-KBA05N		
		NT625C/631/631C Series to NS12/10 Series		NS12-ATT01		
		NT625C/631/631C Series to NS12/NS10 Series (Black)		NS12-ATT01B		
Attachment		NT610C Series to NS12/10 Series		NS12-ATT02		
		NT620S/620C/600S Series to NS8 Series		NS8-ATT01		
		NT600M/600G/610G/612G Series to NS8 Series		NS8-ATT02		
Memory		128 MB		HMC-EF183		
Card		256 MB		HMC-EF283		
		512 MB		HMC-EF583		
Memory Card	Adapter			HMC-AP001	CE	
Replacement E	Battery	Battery life: 5 years (at 25°C)		CJ1W-BAT01	_	
Bar Code Read	der *3	CCD handheld bar code reader (RS-232C interface)		V520-RH21-6		

^{*1.} One screen cannot display two video inputs simultaneously.

*2. A Chemical-resistant Cover (NT30-KBA01) is available only for the NS5.

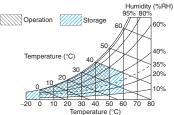
*3. Bar Code Reader (V520-RH21-6) was discontinued at the end of August 2016.

General Specifications

NS5/NS8/NS10/NS12/NS15

Series	NS5-V2	NS8-V2	NS10-V2	NS12-V2	NS15-V2
Rated power supply voltage	24 VDC				
Allowable voltage range	20.4 to 27.6 VDC (24 VDC	C ±15%)			
Power consumption	15 W max.	25 W max.			45 W max.
Ambient operating temperature	the mounting angle Mounting angle of • When no Expans • When a Video In operating temper	ating temperature is subjere. 0 to 30° to the horizontal: sion Units are mounted, the put Unit or a Controller Lir rature is 0 to 35°C.	ct to the following restriction e operating temperature rank Interface Unit is mounted: : Operating temperature ra	nge is 0 to 45°C. I, the ambient	Display surfaces 30° Horizontal 0°
Storage temperature	−20 to 60 °C *1				
Ambient operating humidity	35 to 85% (0 to 40 °C), 35	5 to 60% (40 to 50 °C) (wit	h no condensation)		
Operating environment	No corrosive gases.				
Noise immunity	Conforms to IEC61000-4-	-4, 2 kV (power lines).			
Vibration resistance (during operation)	10 to 57 Hz, 0.075 mm ar	mplitude, 57 to 150 Hz, 9.8	ß m/s² 30 min each in X, Y,	and Z directions	5 to 8.4 Hz, 3.5 mm single amplitude, 8.4 to 150 Hz, 9.8 m/s² 10 min times each in X, Y, and Z directions
Shock resistance (during operation)	147 m/s ² 3 times each in	direction of X, Y, and Z			
Weight	1.0 kg max.	2.0 kg max.	2.3 kg max.	2.5 kg max.	4.2 kg max.
Degree of protection	Front operating panel: IP6 Note: May not be applica				
Ground	Ground to 100 Ω or less.				
Battery life	5 years (at 25 °C): Replac	ce battery within 5 days af	ter the battery runs low (inc	icator lights orange).	
Applicable standards	Certified for conformance	to UL 508, UL 1604, EMC	Directive, NK, and LR Sta	ndards.	

***1.** Operate the HMI within the temperature and humidity ranges shown in the right diagram. ***2.** Support for NS5, NS10, NS12 and NS15.



NSH5 Hand-held HMI

Series	NSH5-V2							
Туре	5.7-inch C	olor TFT (Hand-held Version)						
Case color	Black							
Built-in Ethernet port	No							
Model	NSH5-SQR10B-V2 (Emergency stop button: Red)	NSH5-SQG10B-V2 (Stop button: Gray)						
Rated power supply voltage	24 VDC							
Allowable voltage range	20.4 to 27.6 VDC (24 VDC ±15%)							
Power consumption	10 W max.							
Ambient operating temperature	0 to 40°C	to 40°C						
Storage temperature	−20 to 60°C							
Ambient operating humidity	35% to 85% (0 to 40°C) with no condensation							
Operating environment	No corrosive gases.							
Noise immunity	Common mode: 1,000 Vp-p (between power supply termin Normal mode: 300 Vp-p Pulse width: 100 ns to 1 µs, Rise time: 1-ns pulse	nals and panel)						
Vibration resistance (during operation)	10 to 57 Hz, 0.075 mm amplitude, 57 to 150 Hz, 9.8 m/s ²	30 min each in X, Y, and Z directions						
Shock resistance (during operation)	147 m/s² 3 times each in direction of X, Y, and Z							
Weight	1 kg max.							
Degree of protection	Equivalent to IP65.							
Ground	Ground to 100 Ω or less.							
Battery life	5 years (at 25°C): Replace battery within 5 days after the	battery runs low (indicator lights orange).						
Applicable standards	Certified for conformance to UL 508, EMC Directive, and I	EN 60204-1.						

NS Series

Performance/Specifications

NS₅

Series					NS	5-V2						
Model		NS5-SQ10-V2	NS5-SQ11-V2	NS5-SQ10B-V2	NS5-SQ11B-V2	NS5-TQ10-V2	NS5-TQ11-V2	NS5-TQ10B-V2	NS5-TQ11B-V2			
Built-in Ether	net port	No	Yes	No	Yes	No	Yes	No	Yes			
Case color	-	lvory		Black	I	Ivory	I	Black	I			
Display device	e	TFT color LCD	FT color LCD Color High-luminance TFT *1									
Effective disp	olay area	Width 117.2 × height 88.4 mm (5.7 inches)										
Display color	s	256 colors										
Number of do	ots	320 dot horizontal × 240 dot vertical										
View angle		Left/right: 80°, T	op: 80°, Bottom:	: 60° *5								
Screen data of	apacity	60 Mbytes										
Image data (BMP or JPG	images)	32,768 colors										
Memory Card	<u> </u>	Supported										
Ladder Monit	or function	Not supported										
Video Input U	Init support	Not supported										
Controller Lir Unit (Wired) s		Not supported										
	Service life * 3	75,000 hours mi	in.									
Backlight *2	Brightness adjustment	Three-level or 3	2-level brightnes	ss adjustment fro	m the touch pane	el screen. * 4						
Zuomigin Z	Backlight error detection *5	Error is detected	d automatically,	and the RUN ind	cator flashes gre	en as notification	١.					
Touch panel	Method	Matrix resistive	Matrix resistive membrane									
	Number of switches/ resolution	300 (20 horizon	00 (20 horizontal $ imes$ 15 vertical) 16 $ imes$ 16 dots for each switch									
type)	Input	Pressure-sensiti	ressure-sensitive									
	Service life	1,000,000 touch	operations.									
	Labels	Can be specified	d in CX-Designe	r. Font, style, and	d size can be spe	ecified.						
Display text	Numerals, alarms, and character strings	Rough: Standard: Fine:	Standard: Magnification: 1×1, 1×2, 2×1, 2×2, 3×3, 4×4, 8×8									
	Supported languages (42 languages)	Japanese, simp Finnish, Norweg Bulgarian, Belar	Scalable Gothic, rough, standard, and fine can be used for 42 languages. Japanese, simplified Chinese, traditional Chinese, Korean, English, French, German, Italian, Portuguese, Spain, Swedish, Dutch, Finnish, Norwegian, Basque, Catalan, Danish, Albanian, Croatian, Czech, Hungarian, Polish, Romanian, Slovak, Slovenian, Bulgarian, Belarusian, Russian, Serbian, Macedonian, Ukrainian, Georgian, Icelandic, Afrikaans, Faroese, Indonesian, Greek, Turkish, Estonian, Latvian, Lithuanian, Thai (supported only with scalable Gothic font)									
	Color	256 colors										
Text attributes	Font style (only when vector font is specified)	Bold or italic										
attributes	Vertical alignment	Top, center, or b	oottom									
	Horizontal alignment	Left-justified, ce	ntered, or right-j	ustified								
Flicker	Objects supporting flicker	Functional objects:		up to 10 types of three flicker type		r settings. The fli	cker speed and f	licker range can l	be set.			
Numeral units settings	s and scale	1.000 max.										
Alarm/event	settings	5,000 max.										
Expansion in	terface	For Expansion I	nterface Units									
							0					

^{*1.} NS5-TQ series (high luminance TFT) luminance is better than that of NS5-SQ series by about 110 cd/m².
*2. Contact your nearest OMRON representative to replace the backlight.
*3. This is the estimated time before brightness is reduced by half at room temperature and humidity. It is not a guaranteed value. The service life will be dramatically shortened if HMI is used at low temperatures. For example, using the HMI at temperatures of 0°C will reduce the service life to approximately 10,000 hours (reference value).

^{*4.} Lot No. 15Z0 or later of NS5 models.

*5. This function does not indicate that the service life has been reached. It detects when the backlight is not lit due to a disconnection or other

Backlight error detection indicates that all backlights (2) are OFF.

NS8/NS10/NS12/NS15

Series				8-V2				0-V2				2-V2			5-V2			
Model		NS8- TV00- V2	NS8- TV01- V2	NS8- TV00B -V2	NS8- TV01B -V2	NS10- TV00- V2	NS10- TV01- V2	NS10- TV00B -V2	NS10- TV01B -V2	NS12- TS00- V2	NS12- TS01- V2	NS12- TS00B -V2	NS12- TS01B -V2	NS15- TX01S- V2	NS15- TX01B- V2			
Built-in Ether	net port	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	Yes	Yes			
ase color		Ivory	1	Black		Ivory	1	Black		Ivory		Black		Silver	Black			
Display device Effective display area		High-definition LET color LCD High-definition LET color LCD High-definition LET color LCD							High-defir color LCD)								
		Width 1 (8.4 incl		ight 128.2	2 mm	Width 2 (10.4 in		ight 162.4	4 mm	Width 2 (12.1 in	$46.0 \times \text{he}$ ches)	ight 184.5	5 mm	Width 304 228.1 mm (15 inche	1			
Display colors		256 cold	ors															
Number of dots				al × 480 d	ot vertica					vertical	horizonta		ot	1,024 dot × 768 dot	vertical			
View angle		Left/righ Bottom:	nt: 80°, To : 60° *3	p: 80°,		Left/righ Bottom:	nt: 70°, To 65° *3	p: 65°,		Left/righ Bottom:	nt: 80°, To 80° *3	p: 80°,		Left/right: 70°, Botto				
Screen data	capacity	60 Mby	tes															
mage data BMP or JPG		32,768																
lemory Card		Support																
adder Monit	tor function	Support	ted											(0 55				
/ideo Input l	• • • • • • • • • • • • • • • • • • • •	Support	ted (Imag	e displaye	ed via vid	eo input i	s 260,000	O colors)						(Only RGI enabled.)	B input is			
	ntroller Link Interface t (Wired) support Not supported Supported																	
	Service life * 2	50,000	hours mir	١.														
Backlight *1	Brightness adjustment Backlight	Three-le	evel or 32	-level brig	htness a	djustmen	t from the	e touch pa	anel scree	en. * 3								
	error detection *4	Error is	detected	automatio	cally, and	the RUN	indicato	flashes (green as r	notificatio	n.							
	Method	Matrix r	esistive m	nembrane										Analog resistive membrane *5				
Fouch panel matrix type)	Number of switches/ resolution			$al \times 24$ vereach switch				ntal × 30 v each swite			50 horizor dots for e			Resolution (horizonta (vertical)				
	Input		e-sensitiv															
	Service life			operation														
	Labels		•					e can be s	specified.									
Display text	Numerals, alarms, and character strings	Rough: Standar Fine: M	e Gothic: Magnifica d: Magnif agnification ent displa	ation: 1: fication: 1: on: 1:	×1, 1×2, 2 ×1, 1×2, 2 ×1, 1×2, 2	2×1, 2×2, 2×1, 2×2, 2×1, 2×2,	3×3, 4×4	, 8×8 -, 8×8	times.									
	Supported languages (42 languages)	Japanes Finnish, Bulgaria Turkish	se, simpli , Norwegi an, Belaru , Estoniar	fied Chine an, Basqu Isian, Rus	ese, tradit ue, Catala ssian, Ser	tional Chi an, Danis bian, Ma	nese, Ko h, Albania cedonian	an, Croati	ılish, Fren an, Czecl ın, Georgi	nch, Gern h, Hunga ian, Icela	rian, Polis ndic, Afrik	sh, Roma	nian, Slov	ain, Swedis vak, Sloven donesian, C	ian,			
	Color	256 cold	ors															
Font style (only when vector font is specified) Bold or italic																		
attributes	Vertical alignment	Top, ce	Top, center, or bottom															
	Horizontal alignment	Left-just	tified, cen	tered, or	right-justi	fied												
	Objects supporting	Function Fixed of			from up			stered flic	ker settin	gs. The f	licker spe	ed and fli	cker rang	je can be s	et.			
Flicker	flicker																	
lumeral unit	s and scale	1.000 m	nax.															
Flicker Numeral unit settings Alarm/event s Expansion in	s and scale	5,000 m	nax.	terface U														

- *1. Contact your nearest OMRON representative to replace the backlight.
- *2. This is the estimated time before brightness is reduced by half at room temperature and humidity. It is not a guaranteed value. The service life will be dramatically shortened if HMI is used at low temperatures. For example, using the HMI at temperatures of 0 °C will reduce the service life to approximately 10,000 hours (reference value).
- *3. Lot No. 28X1 or later of NS8 models, Lot No. 11Y1 or later of NS10 models, Lot No. 14Z1 or later of NS12 models, Lot No. 31114K or later of NS15 models.
- *4. This function does not indicate that the service life has been reached. It detects when the backlight is not lit due to a disconnection or other errors. Backlight error detection indicates that all backlights (2) are OFF.
- *5. An analog touch panel is used with the NS15. Do not press the touch panel in two or more places simultaneously.

 If the touch panel is pressed in two or more places simultaneously, it may activate a switch between the points that are pressed.

NS Series

Communications

NS5/NS8/NS10/NS12/NS15

		Interface	One ATA-Compact Flash interface slot				
Memory Card	Memory Card		Used to transfer and store screen data, store logging data, and store history data. (Alarm/Event History, Operation Log, and Error Log generated during Macro execution).				
Serial	Port A	Connector	Conforms to EIA RS-232C. D-Sub female 9-pin connector 5-V output (250 mA max.) through pin 6. The 5-V outputs of serial ports A and B cannot be used at the same time.				
		Functions	Host (PLC) access: 1:N NT Links (connections with CS/CJ/CP-series PLCs and C200HX/HG/HE(-Z) PLCs), 1:1 NT Links, or Host Link (connections with C Series or CVM1/CV-series PLCs) Direct access to Temperature Controllers using Smart Active Parts: CompoWay / F and bar code reader connections (Read directly from display.)				
Communications		Connector	Conforms to EIA RS-232C. D-Sub female 9-pin connector. 5-V output (250 mA max.) through pin 6. The 5-V outputs of serial ports A and B cannot be used at the same time.				
	Port B	Functions	Host (PLC) access: 1:N NT Links (connections with CS/CJ/CP-series PLCs and C200HX/HG/HE(-Z) PLCs) or 1:1 NT Links (connections with C Series or CVM1/CV-series PLCs) Direct access to Temperature Controllers using Smart Active Parts: CompoWay / F and bar code reader connections (Read directly from display.)				
		USB rating	USB1.1				
USB		Connector	TYPE-B (Slave)				
SLAVE Specifications		Functions	Connection with the CX-Designer (for screen data transfers) Connecting to a PictBridge-compatible Printer Recommended printers: EPSON: PM-G4500, PX-G5300, PX-5600, EP-901F Canon: PIXUS MX7600, PIXUS iP100, PIXUS iX5000				
			USB1.1				
USB HOST		Connector	TYPE-A (Host)				
Specifications *1	Specifications *1		Connection with a printer (for hard copies) Recommended printers: EPSON: PX-G930				
Built-in Ethernet Specifications *2			Conforms to IEEE 802.3/Ethernet (10 Base-T/100 Base-TX).				
Specifications 2		Functions	Host (PLC) access and connection with the CX-Designer (for screen data transfers)				
Controlled Link (M	!I	Baud rate	2 M/1 M/500 K bps				
Controller Link (Wired- type) Specifications *3		Transmission path	Shielded twisted-pair cable (special cable)				
		Functions	Host (PLC) access and data links				
Video Input Specifications *4		Resolution	NS-CA001: 320×240, 640×480, 800×600 dots NS-CA002: User-defined size				
		Input signal	NS-CA001: NTSC composite video or PAL NS-CA002: NTSC composite video or PAL				
		Number of video inputs	NS-CA001: Number of cameras: 4 max. NS-CA002: 2 cameras + RGB				

^{*1.} Except NS5.

*2. NS - - 1-V2 only.

*3. Except NS5 and NS8.

*4. Except NS5 and NS15. NS15 provides RGB input. (NS-CA002)

Connectable Devices

Supported OMRON PLCs

PLC series	DI O a dal a a		RS-232C *1		Ethe		
	PLC model name	1:1 NT Link	1:N NT Link	Host Link	FINS *2	EtherNet/IP *3	Controller Link *4
	CQM1	Yes	No	Yes	No	No	No
	CQM1H	Yes	Yes	Yes	No	No	Yes
	CPM1	Yes	No	Yes	No	No	No
	CPM1A	Yes	No	No	No	No	No
0.0	CPM2A	Yes	No	Yes	No	No	No
C Series	CPM2C	Yes	No	Yes	No	No	No
	C200HS	Yes	No	Yes	No	No	No
	C200HE (-Z)	Yes	Yes	Yes	No	No	Yes
	C200HG (Z)	Yes	Yes	Yes	No	No	Yes
	C200HX (-Z)	Yes	Yes	Yes	No	No	Yes
CVM1/CV Series	CV500/1000/2000	Yes	No	Yes	Yes	No	Yes
	CVM1	Yes	No	Yes	Yes	No	Yes
CS Series	CS1H	No	Yes	Yes	Yes	Yes	Yes
	CS1G	No	Yes	Yes	Yes	Yes	Yes
	CS1D	No	Yes	Yes	Yes	Yes	Yes
	CJ1H	No	Yes	Yes	Yes	Yes	Yes
	CJ1G	No	Yes	Yes	Yes	Yes	Yes
CJ Series	CJ1M	No	Yes	Yes	Yes	Yes	Yes
	CJ2H	No	Yes	Yes	Yes	Yes	Yes
	CJ2M	No	Yes	Yes	Yes	Yes	Yes
CP Series	CP1H	No	Yes	Yes	Yes	Yes	No
	CP1L	No	Yes	Yes	Yes	No	No
	CP1E	No	Yes	Yes	No	No	No
NJ Series	NJ5/NJ3/NJ1	Yes *5	Yes *5	Yes *5	No	Yes *6	No
NX Series	NX1P2/NX7	No	No	No	No	Yes	No

Note: Including models whose production were discontinued.

- *1. To connect a NS with a PLC via a RS-422A connection, OMRON's NS-AL002, or CJ1W-CIF11 RS-232C/RS-422A Converter can be used to convert the RS-232C port on the NS to RS-422A.
- *2. A NS with Ethernet port is necessary.

When connecting a PLC with the NS, an Ethernet port is necessary on the PLC, too. Use a PLC CPU Unit with a built-in Ethernet port, or add an Ethernet Unit.

- ***3.** A NS with Ethernet port is necessary.
 - When connecting a PLC with the NS, an EtherNet/IP port is necessary on the PLC, too. Use a PLC CPU Unit with a built-in EtherNet/IP port, or add an EtherNet/IP Unit.
- *4. Install a Controller Link Interface Unit on the NS. A Controller Link Unit is necessary for the PLC.
 *5. Mount a Serial Communications Unit on the NJ-series Controller. A NS can access only to the Controller's memory used for CJ-series unit.
- *6. When using a EtherNet/IP Unit to connect the NJ-series Controller, NJ Troubleshooter is not supported.

Function Comparison

PLC series	PLC model name	Ladder Monitor	Device Monitor/ Switch Box	PLC Data Trace	SPMA	SAP	EtherNet/IP Tag access (Network symbols)	PLC Troubleshooter	NJ Troubleshooter/ Integrated NS-series PT simulation *4
	CQM1	No	No	No	No	No	No	No	No
	CQM1H	No	No	No	No	No	No	No	No
	CPM1	No	No	No	No	No	No	No	No
	CPM1A	No	No	No	No	No	No	No	No
Cassias	CPM2A	No	No	No	No	No	No	No	No
C series	CPM2C	No	No	No	No	No	No	No	No
	C200HS	No	No	No	No	No	No	No	No
	C200HE (-Z)	No	No	No	No	No	No	No	No
	C200HG (-Z)	No	No	No	No	No	No	No	No
	C200HX (-Z)	No	No	No	No	No	No	No	No
CVM1/CV	CV500/1000/2000	No	No	No	No	No	No	No	No
series	CVM1	No	No	No	No	No	No	No	No
CS series	CS1H	Yes	Yes	Yes	Yes	Yes	No	Yes	No
	CS1G	Yes	Yes	Yes	Yes	Yes	No	Yes	No
	CS1D	Yes	Yes	Yes	Yes	Yes	No	Yes	No
	CJ1H	Yes	Yes	Yes	Yes	Yes	No	Yes	No
	CJ1G	Yes	Yes	Yes	Yes	Yes	No	Yes	No
CJ series	CJ1M	Yes	Yes	Yes	Yes	Yes	No	Yes	No
	CJ2H	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
•	CJ2M	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
CP series	CP1H	Yes	Yes	Yes	Yes *1	Yes	No	No	No
	CP1L	Yes	Yes	Yes	Yes *1	Yes	No	No	No
	CP1E	No	No	No	Yes *1	Yes	No	No	No
NJ series	NJ5/NJ3/NJ1	No	Yes *2	No	No	Yes *3	Yes	No	Yes
NX Series	NX1P2/NX7	No	No	No	No	No	Yes	No	Yes

Note: Including models whose production were discontinued.

^{*1.} The SPMA relaying a PLC is not supported.
*2. Only Device Monitor function is supported. Monitoring function that uses tags (variables) is not supported.
*3. The SAP for CJ-series Special I/O Units and CPU Bus Units that can be used with NJ-series Controller is supported.
*4. Sysmac Studio version 1.02 or higher (CX-Designer version 3.41 or higher) is required.

Connectable Inverters

Series	Communication Unit	Connection		
3G3MX2-V1	(Use the RS-485 terminal on the Inverter)			
3G3JX	(Use the RS-485 connector on the Inverter)	RS-485 (2-wire)	1:N	
3G3RX-V1	(Use the RS-485 terminal on the Inverter)			

Connectable Temperature Controllers

The following Temperature Controllers can be connected directly to an NS-series HMI*.

Unit name	Series	Model	Remarks			
Modular Temperature Controller	EJ1	EJ1-EDU End Unit				
Modular Temperature Controller	E5ZN	E5ZN-SCT24S Terminal Unit				
Digital Controller	E5AR	E5AR-00000-FLK				
Digital Controller	E5ER	E5ER-000000-FLK]			
		E5CN-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
		E5CN-UUUL-FLK Analog Input Type				
	E5AN/E5EN/E5CN	E5EN-□□□□T-FLK Multi-input (Thermocouple/Resistance Thermometer) Type	SAP screens are			
	(Basic Model)	E5EN-DDDL-FLK Analog Input Type	available.			
Temperature Controller (Digital Controller)		E5AN-□□□□T-FLK Multi-input (Thermocouple/Resistance Thermometer) Type				
(= -9		E5AN-□□□□L-FLK Analog Input Type				
	E5AN-H/E5EN-H/ E5CN-H (Advanced Model)	E5CN-HODOD-FLK Universal-input Model				
		E5EN-HODOOD-FLK Universal-input Model				
		E5AN-HODOOD-FLK Universal-input Model				
	E5GN	E5GN-□□□TC-FLK Thermocouple Input Type				
	Logiv	E5GN-□□□P-FLK Resistance Thermometer Input Type				
	E5AC/E5EC/E5DC/	E5AC-0000-015 Universal-input Model				
	E5CC/E5GC	E5EC-0000-015 Universal-input Model	SAP screens are			
	(RS-485 Models)	E5DC-UUU-015 Universal-input Model	available for basic			
		E5CC-□□□□□-015 Universal-input Model	functions such as PV			
		E5GC-□□□□□-015 Universal-input Model	read and write, set			
	ESED ESOD	E5CD-□□□□□□-002, E5CD-□□□□□□-004 Universal Input Type				
	E5ED, E5CD	E5ED-□□□□□-004, -008, -022 Universal Input Type				

Note: Including models whose production were discontinued. *The NS-Runtime cannot be connected directly to a Temperature Controller.

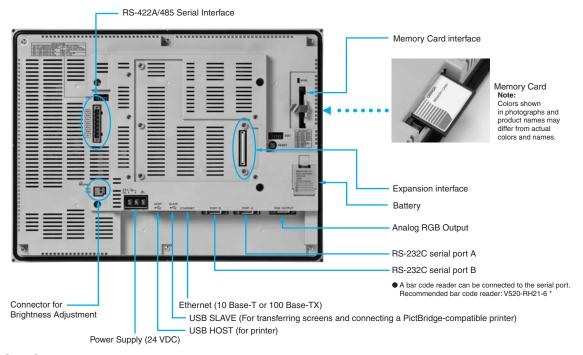
Connecting to Another Company's PLC

Manufacturer	Series	CPU	Communication Unit/Adapter/Board	d Connection diagram		
	A Series	A1SHCPU A2USCPU A2USHCPU-S1	Computer Link Unit A1SJ71UC24-R A1SJ71UC24-PRF Computer Link Unit	RS-232C, RS422A/485 *1	1:1	
		A2ACPU	AJ71UC24			
	FX Series	FX0N FX1S FX1N FX1NC FX2N FX3UC FX3G	Communication special adapter FX3U-232-ADP FX2NC-232ADP FX0N-232-ADP Communication expansion board FX□□-232-BD	RS-232C, RS422A/485 *1	1:1	
		Q00CPU Q01CPU	RS-232C port on the CPU Module	RS-232C	1:1	
Mitsubishi Electric	Q/QnA Series	Q00CPU Q01CPU Q00JCPU Q02CPU Q02HCPU Q06HCPU Q12HCPU Q25HCPU Q03UDCPU Q06UDHCPU Q13UDHCPU	Serial Communications Module QJ71C24N-R2 QJ71C24N-R4 QJ71C24N	RS-232C, RS-485 (4-wire) *2	1:N	
		Q2ASCPU Q2ASCPU-S1 Q2ASHCPU Q2ASHCPU-S1	Serial Communications Module A1SJ71QC24N			
		F3SC23-1F	CPU built-in RS-232C port	RS-232C	1:1	
Yokogawa Electric	FA-M3(R) Series	F3SP21-0N F3SP28-3S F3SP58-6S F3SP67-6S	Personal Computer Link Module F3LC11-1F F3LC12-1F F3LC11-2F	RS-232C, RS-422A/485 *1		
Siemens	S7-300 Series	CPU313 CPU315-2DP CPU317-2PN/DP	SIMATIC S7 HMI Adapter 6ES7 972-0CA1 -0XA0	RS-232C	1:1	
Rockwell (Allen-Bradley)	SLC500	SLC5/03 SLC5/04 SLC5/05	RS-232C port on the CPU Module	RS-232C	1:1	
	MicroLogix	MicroLogix 1500	RS-232C port on the CPU Module	RS-232C	1:1	
	ControlLogix	Logix5555	RS-232C port on the CPU Module	RS-232C	1:1	
	CompactLogix	1769-L31	RS-232C port on the CPU Module	RS-232C	1:1	
	PLC-5	PLC-5/20	RS-232C port or RS-485 port on the CPU Module	RS-232C/RS-485 (4-wire)	1:N	

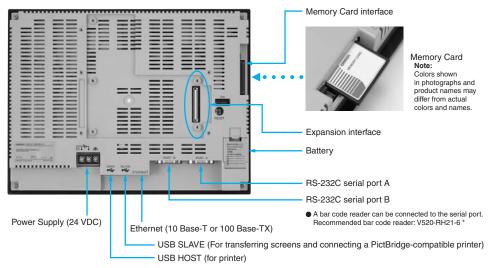
^{*1.} To connect using RS-422A/485, an RS-232C/422A converter (e.g. NS-AL002, CJ1W-CIF11) is required.
*2. To connect using RS-485, an RS-232C/422A converter (e.g. NS-AL002, CJ1W-CIF11) is required.
Up to 32 sequencers can be connected when using RS-485.

Component Names and Options

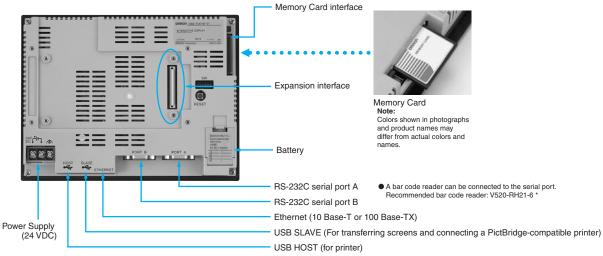
NS15



NS12/10

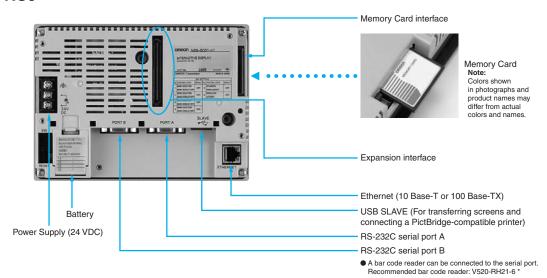


NS8



*Bar Code Reader (V520-RH21-6) was discontinued at the end of August 2016.

NS₅



*Bar Code Reader (V520-RH21-6) was discontinued at the end of August 2016.

NSH₅



Optional Products



Video Input Unit NS-CA001 (with Cover)



RGB/Video Input Unit NS-CA002 (with Cover)



Controller Link Interface Unit NS-CLK21 (with Cover)



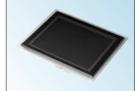
RS-422A Adapter CJ1W-CIF11



RS-232C/RS-422A Conversion Unit NS-AL002



Communications Cable XW2Z-S002



Protective Cover/Anti-reflection Sheet for NS-series PT NS-KBA0 (N) NT30/NT31C-KBA05 (N)

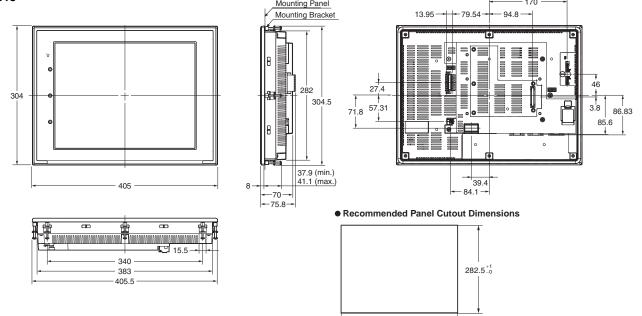


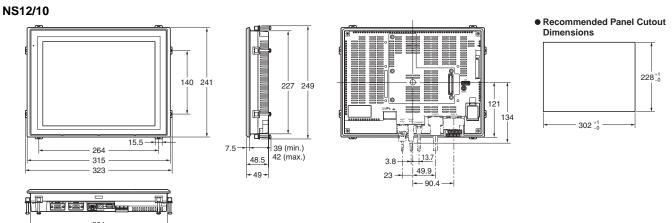
USB Serial Conversion Cable CS1W-CIF31



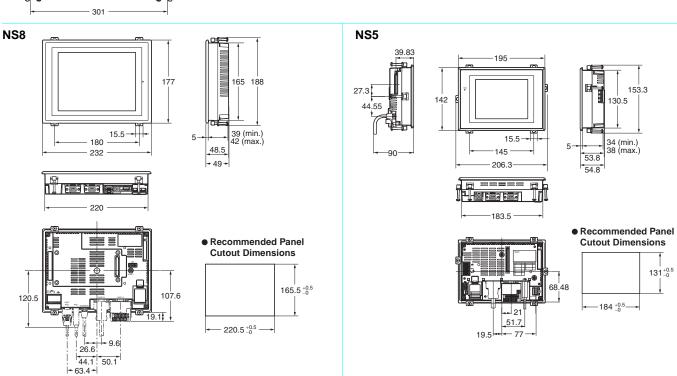
USB relay cable (IP65 oil-proof type) NS-USBEXT-1M

Dimensions (Units: mm) **NS15** Mounting Panel 13.95 Mounting Bracket



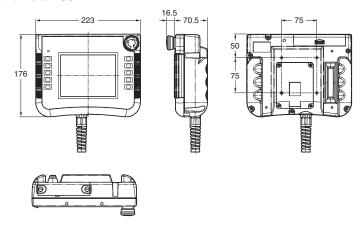


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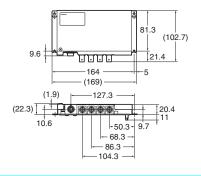


NS Series

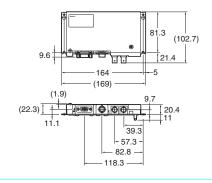
Hand-held NS5



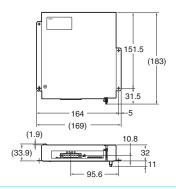
NS-CA001 Video Input Unit



NS-CA002 Video Input Unit



NS-CLK21 Controller Link Interface Unit



Related Manuals

Cat. No.	Model	Manual
V083	NS15/NS12/NS10/NS8/NS5	NS-Series Programmable Terminals SETUP MANUAL
V073	NS15/NS12/NS10/NS8/NS5	NS-Series Programmable Terminals PROGRAMMING MANUAL
V099	NS-CXDC1-V3	CX-Designer Ver.3. ☐ USER'S MANUAL
V082	NS	NS-Series Ladder Monitor OPERATION MANUAL (Ladder Monitor I/O Comment Extracting Tool)
V086	NS-CA002	NS-Series RGB and Video Input Unit OPERATION MANUAL
V090	NSH5	NSH5-Series Hand-held Programmable Terminal OPERATION MANUAL
V098	NS15/NS12/NS10/NS8/NS5	NS-Series Programmable Terminals HOST CONNECTION MANUAL (Host Link) OPERATION MANUAL
V085	NS15/NS12/NS10/NS8/NS5	NS-Series Programmable Terminals HOST CONNECTION MANUAL
V092	NS15/NS12/NS10/NS8/NS5	NS-Series Programmable Terminals HOST CONNECTION MANUAL Multivendor Connection
V075	NS15/NS12/NS10/NS8/NS5	NS-Series Programmable Terminals Macro Reference
V093	NS-NSRCL□□	NS-NSRCL□□ NS-Runtime Software USERS MANUAL

Read and Understand This Catalog

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Application Considerations

SUITABILITY FOR USE

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At the customer's request, OMRON will provide applicable third party certification documents identifying ratings and limitations of use that apply to the products. This information by itself is not sufficient for a complete determination of the suitability of the products in combination with the end product, machine, system, or other application or use.

The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

- Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this catalog.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

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PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

Disclaimers

CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons.

It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the products may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRONÅfs test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

ERRORS AND OMISSIONS

The information in this document has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical, or proofreading errors, or omissions.

Note: Do not use this document to operate the Unit.

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