



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Operator Interfaces/HMIs NS



Complete System Navigation with Fault Reset Capabilities

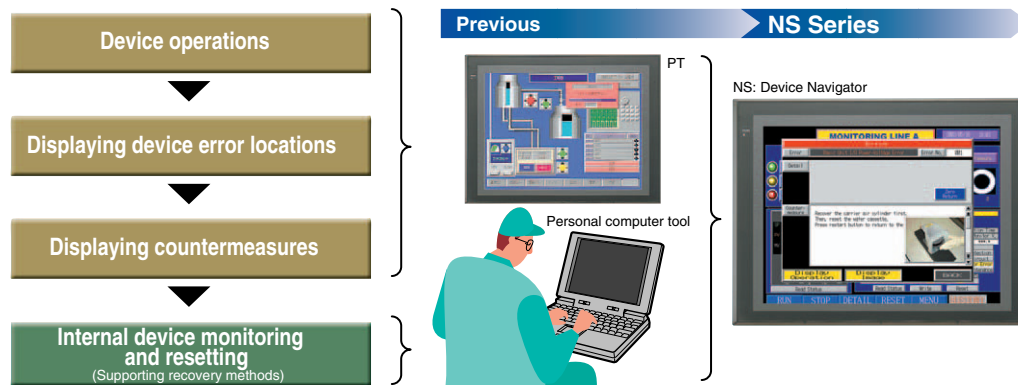
The NS advanced operator interfaces have brilliant display screens that maximize visualization of graphics. They support Omron's Smart Platform for small and medium size manufacturing operations with fully integrated design, programming, operation, monitoring and troubleshooting accessed from a single operator interface. This affordable solution brings the benefits of high-end interoperability within reach to give you a competitive production advantage on the plant floor.



Class I Div 2, Groups A, B, C, and D.

Direct Device Access

Omron's NS-Series touch screen HMIs offer built-in Ethernet communications, exceptional alarming/recipe/data logging capabilities and live video input/display capabilities. By allowing direct resetting of faults, these HMIs save time and effort in troubleshooting and quickly return your lines to production. The NS-Series achieves flexible data access to a variety of devices. It enables operators to reach the devices on the network including special I/O units, intelligent devices, and PLCs.



Reduced Design Time and Costs

We cut your screen project design time from days to a few hours by preprogramming function blocks that easily drag-and-drop into a program. All you do is specify values for key parameters. Omron already invested the hours and expert know-how programming each function block so you concentrate on the unique aspects of your application. The built-in Smart Active Parts library lets you establish communications and parameters for a wide range of Omron products. Just select the product and drag its icon into your project and it automatically sets the correct protocols.

Specifications

Series	NS8	NS10	NS12
Dimensions (W x H x D mm)	232 x 177 x 48.5	315 x 241 x 48.5	315 x 241 x 48.5
Effective display area	8.4 inch	10.4 inch	12.1 inch
Display device	High-definition TFT		
Resolution	640 x 480 pixels	640 x 480 pixels	800 x 600 pixels
View angle	±65° left/right, 50° top, 60° bottom	±60° left/right, 35° top, 65° bottom	±60° left/right, 45° top, 75° bottom
Maximum screen capacity	60 MB	60 MB	60 MB
Number of switches	768	1200	1900
Display colors	Basic colors (objects, background, etc.)	256 colors	256 colors
	Image data (BMP or JPG images) Images displayed	32,768 colors	32,768 colors
Screen data capacity via video input	260,000 color	260,000 colors	260,000 colors
Backlight life expectancy	50,000 hours min.		
Memory card capacity	64 Mbytes		
Expansion interface	Controller Link and video input board		

Series	NS5		
Dimensions (W x H x D mm)	195 x 142 x 54		
Effective display area	5.7 inch		
Display device	STN (monochrome)	STN (color)	TFT (color)
Resolution	320 x 240 pixels		
View angle	±45° left/right, 20° top, 40° bottom	±50° left/right, 45° top, 50° bottom	±70° left/right, 70° top, 50° bottom
Maximum screen capacity	20 MB		
Number of switches	300		
Display colors	Basic colors (objects, background, etc.)	Monochrome/16 gray scale levels	256 colors
	Image data (BMP or JPG images) Images displayed	Monochrome/16 gray scale levels	4,096 colors
Screen data capacity via video input	—		
Backlight life expectancy	50,000 hours min.		
Memory card capacity	64 Mbytes		
Expansion interface	—		

Ordering Information

NS-Series HMI Terminals

Description	Size	Resolution	Memory size	Features	Model
Full system navigation HMI	5-inch STN monochrome	320 x 240	20 MB onboard	—	NS5-MQ00B-V2
				Ethernet	NS5-MQ01B-V2
	—			NS5-SQ00B-V2	
	Ethernet			NS5-SQ01B-V2	
	5-inch TFT	640 x 480	60 MB onboard	—	NS5-TQ00B-V2
				Ethernet	NS5-TQ01B-V2
	8-inch TFT	640 x 480	60 MB onboard	—	NS8-TV00B-V2
				Ethernet	NS8-TV01B-V2
10-inch TFT	640 x 480	60 MB onboard	—	NS10-TV00B-V2	
			Ethernet	NS10-TV01B-V2	
12-inch TFT	800 x 600	60 MB onboard	—	NS12-TS00B-V2	
			Ethernet	NS12-TS01B-V2	

Software

Software name	Description	Quantity	Model
CX-One	Programming and configuration management software that lets you build, configure and program networks, PLCs, HMIs, motion control systems, temperature controllers and sensors	1 license	CXONE-AL01C-E
		3 licenses	CXONE-AL03C-E
		10 licenses	CXONE-AL10C-E

Accessories

Item	Description	Specifications	Model
Video input unit	Enables HMI to display machine vision and CCTV camera images	Inputs 4 channels of NTSC/PAL to display on NS8, NS10 and NS12 HMIs	NS-CA001
		Inputs 2 channels of NTSC/PAL to display on NS8, NS10 and NS12 HMIs	NS-CA002
Vision system console cable	Allows manipulation of vision system parameters from HMI	2 m cable	F150-VKP 2M
		5 m cable	F150-VKP 5M
Controller link interface unit	Establishes HMI as a node for Controller Link communications	Attaches to port on back of HMI	NS-CLK21
RS-422A adapter	Enables monitoring of multiple PLCs	500 m total transmission distance	NS-AL002
		50 m total transmission distance	CJ1W-CIF11
Anti-reflection sheets	For NS10 and NS12 models	5 sheets; applied to screen surface	NS12-KBA04
	For NS8 models		NS7-KBA04
	For NS5 models		NT30-KBA04
Protective covers	For NS10 and NS12 models	5 covers; protects screen surface	NS12-KBA05
	For NS8 models		NS7-KBA05
	For NS5 models		NT31C-KBA05
Chemical resistant covers	For NS5 models	5 covers	NT30-KBA01
Memory card	Store screen data and firmware; requires Memory Card Adapter	30 MB	HMC-EF372
		64 MB	HMC-EF672
Memory card adapter	Enables use of Memory Cards	—	HMC-AP001
Battery	Backs up HMI memory	—	CJ1W-BAT01

Cables

Function	Connections	Applicable models	Cable length	Model
Connect NS HMIs to printer	USB to USB	NS8, NS10, NS12	2 m	NS-US22
			5 m	NS-US52
Converts USB to RS-232C	USB to 9-pin D-sub	NS5, NS8, NS10, NS12	0.5 m	CS1W-CIF31
Connect NS-V2 HMIs to Omron PLCs	9-pin to PLC mini-peripheral port	CPM2C, CQM1H, CJ1, CS1	10 cm	CS1W-CN118
Connect NS-V2 HMIs to Omron PLC	9-pin to 9-pin PLC peripheral port	CPM1A, CPM2A, CQM1, C200H/C200HE/ C200HG/C200HX	50 cm	C200H-CN510-EU
			3 m	C200H-CN320-EU
			5 m	C200H-CN520-EU
Connect NS-V2 HMIs to a PC	RS-232C serial port 9-pin to 9-pin	All NS-V2 models	2 m	C200H-CN229-EU CBL-202 in Canada
	USB, commercially available	Connects slave port on all NS-V2 models	Various	—

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1. **Offer; Acceptance.** These terms and conditions (these "Terms") are deemed part of all quotes, agreements, purchase orders, acknowledgments, price lists, catalogs, manuals, brochures and other documents, whether electronic or in writing, relating to the sale of products or services (collectively, the "Products") by Omron Electronics LLC and its subsidiary companies ("Omron"). Omron objects to any terms or conditions proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms.
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 - c. All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Omron), at which point title and risk of loss shall pass from Omron to Buyer; provided that Omron shall retain a security interest in the Products until the full purchase price is paid;
 - d. Delivery and shipping dates are estimates only; and
 - e. Omron will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
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ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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