



Programmable Terminals NS5-V2

Monochrome Models: NS5-MQ0□(B)-V2
TFT Models: NS5-TQ0□(B)-V2

New 5.7-inch Monochrome and TFT Models!
Conventional STN-type in the NS5 Line Have Been Joined by New Low-cost Monochrome-type and High-visibility TFT-type.

The model numbers for the new Monochrome and TFT models end in -V2. Please make sure the model number has this suffix when ordering.



Monochrome Models

TFT Models

Monochrome Models

The NS5-MQ0□(B)-V2 Monochrome PTs expresses all the nuances of color using 16 shades of gray to display photographs and BMP files. They readily accept conventional STN screen data and display the data in 16 shades of gray. All other functions are the same as conventional STN models.

● NS System

A recent NS System upgrade to version 6.2 means the very latest functions are available in the new Monochrome and TFT PTs. This includes a much improved recipe function (data block function) along with other functions.

● USB Data Transfer Capability with a 5.7-inch Screen

USB slave support is provided as a standard feature. This makes it easy to transfer screen data at high-speed.

TFT Models

The NS5-TQ0□(B)-V2 TFT PTs provide 256 basic colors for objects and backgrounds and 32,768 colors for BMP and JPEG image data. The result is image reproduction the equal of PTs in the NS8/10/12 Series. With a field of vision of ±70° from the left or right, 70° from the top, and 50° from the bottom, the TFT PTs also offer excellent visibility that ranks among the top in the industry.

● Screen Creation Software

Use NS-Designer version 6.2 or CX-One version 1.0 or higher.

Product name	Specifications	Model number
CX-One FA Support Tool Package	The CX-One FA Support Tool Package provides integrated support software for OMRON PLCs and devices. It operates in the following operating systems: Windows 98 SE, Me, NT 4.0 (Service Pack 6a), 2000 (Service Pack 3 or higher), or XP. NS-Designer version 6.2 is included in the CX-One FA Support Tool Package. Refer to Cat. No. R134 for details.	CD-ROM for Windows, One license (See note 1.) CXONE-AL01C-E
The NS-Designer can also still be ordered as a separate product using the following model number.		
NS-Designer version 6.2	Windows 98 SE, Me, NT 4.0 (Service Pack 6a), 2000 (Service Pack 3 or higher), or XP. The Ladder Monitor Software is included in NS-Designer version 6.2. (See note 2.)	CD-ROM for Windows NS-NSDC1-V6

Note 1: CX-One is also available in 3- and 10-license versions.

Note 2: The Ladder Monitor Software is required to monitor CS/CJ-series PLC ladder programs.

■ Specifications

Item	Display specifications	
	NS5-TQ0□(B)-V2	NS5-MQ0□(B)-V2
Display panel	Display device	High-definition TFT color LCD / Monochrome STN LCD
	Number of dots	320 dots horizontally x 240 dots vertically
	Display colors	256 colors (32,768 colors for BMP/JPEG image data) / 16 shades of gray
	Effective display area	117.2 mm wide x 88.4 mm tall (5.7 inches)
	Field of vision	Left/right: ±70°, Top: 70°, Bottom: 50° / Left/right: ±45°, Top: 20°, Bottom: 40°
Backlight (See note 4.)	Service life	75,000 hours min. / 50,000 hours min. (See note 1.)
	Brightness adjustment	There are 3 levels that can be set from the touch panel. (See note 2.)
	Backlight error detection	Errors are detected automatically, and the RUN indicator flashes green for error notification. (See note 3.)

- Note 1:** This is the estimated time before brightness is reduced by half at room temperature and humidity, and is a reference value. The service life will be drastically shortened if the PT is used at low temperatures.
- 2:** The brightness adjustment range is limited.
- 3:** This function does not detect when the service life has been reached. It detects when the backlight is not lit due to a disconnection or other error.
- 4:** Contact your nearest OMRON representative to replace the backlight.

■ Ordering Information

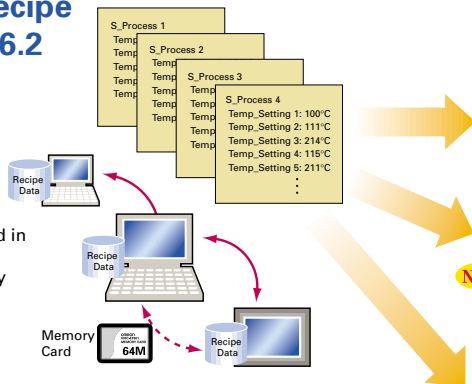
Model name	Specifications		Model number	
	Ethernet	Case color		
NS5	5-inch TFT	No	Ivory	NS5-TQ00-V2
		Yes	Black	NS5-TQ00B-V2
			Ivory	NS5-TQ01-V2
		Black	NS5-TQ01B-V2	
	Mono-chrome STN		No	Ivory
		Black	NS5-MQ00B-V2	
Yes	Ivory	NS5-MQ01-V2		
	Black	NS5-MQ01B-V2		

Refer to the Setup Manual (Cat. No. V083) for general specifications and other details.

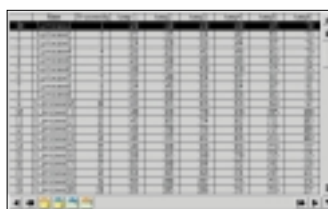
Greatly Improved Recipe Function in Version 6.2

The version 6.2 recipe function (data block function) provides even more flexibility for a greater range of applications.

- Recipe data can be input and edited in Microsoft Excel.
- CSV files can be transferred directly from the computer using FTP.



1 Writing Process Recipe Data as a Batch



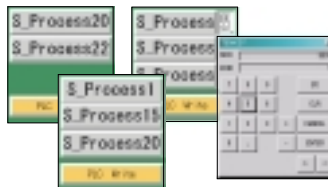
- The recipe data created in Excel can be displayed in table format.
- The desired process can be selected in the window and the data can be written as a batch to the PLC addresses.

2 Displaying and Editing Recipe Data from a Single Process



- Any setting for any process can be extracted and written to a PLC address on screen.

3 Combining Multiple Processes and Writing the Data as a Batch



- Any processes can be combined and the data can be written as a batch to the PLC addresses.
- Processes can be specified in the window using indirect specifications. Processes 1, 15, and 20 can be combined and transferred together.

Warranty and Limitations of Liability

WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

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This catalog mainly provides information that is necessary for selecting suitable models, and does not contain precautions for correct use. Always read the precautions and other required information provided in product operation manuals before using the product.

- The application examples provided in this catalog are for reference only. Check functions and safety of the equipment before use.
- Never use the products for any application requiring special safety requirements, such as nuclear energy control systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, or other application involving serious risk to life or property, without ensuring that the system as a whole has been designed to address the risks, and that the OMRON products are properly rated and installed for the intended use within the overall equipment or system.

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

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Note: Specifications subject to change without notice.

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