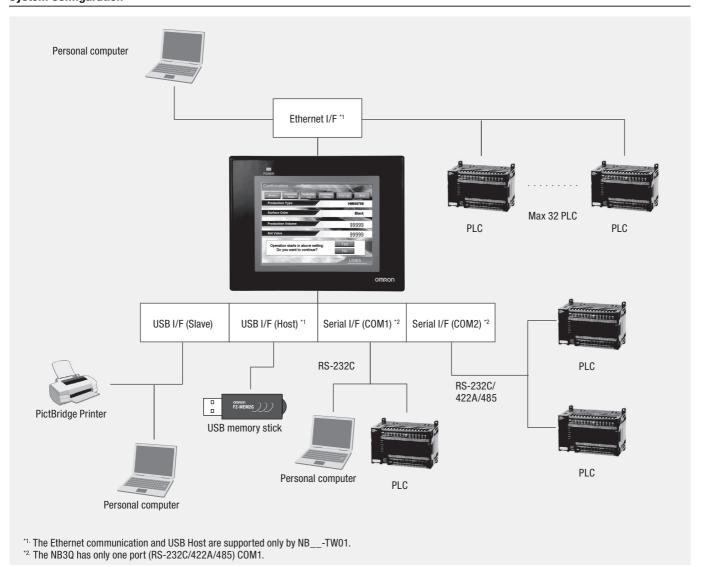


The feature-rich, economic HMI

- More than 65,000 display colours TFT touch screen
- Available in sizes ranging from 3.5 to 10 inches
- · Long-life LED backlight
- · Serial, USB or Ethernet communication
- USB memory stick support
- 128 MB internal memory
- Vector and bitmap graphics

System Configuration



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Specifications

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Specifications	NB3Q		NB5Q		NB7W		NB10W
	TW00B	TW01B	TW00B	TW01B	TW00B	TW01B	TW01B
Display type	3.5" TFT LCD		5.6" TFT LCD		7" TFT LCD		10.1" TFT LCD
Display resolution (H × V)	320 × 240		320 × 234		800 × 480		800 × 480
Number of colours	65,536	5,536					
Backlight	LED	LED					
Backlight lifetime	50,000 hours of operating time at the normal temperature (25°C) ^{*1}						
Touch panel	Analogue resistive membrane, resolution 1024 × 1024, life: 1 million touch operations						
Dimensions in mm (H \times W \times D)	$103.8 \times 129.8 \times 52.8$ $142 \times 184 \times 46$		148 × 202 × 46		210.8 × 268.8 × 54.0		
Weight	310 g max.	315 g max.	620 g max.	625 g max.	710 g max.	715 g max.	1,545 g max.

^{*1} This is the estimated time when the luminous intensity is decreased by 50% per LED at room temperature and humidity. It is a typical value.

Functionality

Specifications	NB3Q		NB5Q		NB7W		NB10W
	TW00B	TW01B	TW00B	TW01B	TW00B	TW01B	TW01B
Internal memory	128MB (including sys	128MB (including system area)					
Memory interface	-	USB Memory	-	USB Memory	-	USB Memory	USB Memory
Serial (COM1)	Transmission distance:		RS-232C, Transmission distance: 15 m Max., Connector: D-Sub 9-pin				
Serial (COM2)	-		RS-232C/422A/485 (not isolated), Transmission distance: 15m Max. (RS-232C), 500m Max. (RS-422A/485), Connector: D-Sub 9-pin				
USB Host	Equivalent to USB 2.0 full speed, type A, Output power 5V, 150mA						
USB Slave	Equivalent to USB 2.0 full speed, type B, Transmission distance: 5m						
Printer connection	PictBridge support						
Ethernet	-	10/100 base-T	-	10/100 base-T	-	10/100 base-T	10/100 base-T

General

Specifications	NB3Q		NB5Q		NB7W		NB10W
	TW00B	TW01B	TW00B	TW01B	TW00B	TW01B	TW01B
Line voltage	20.4 to 27.6 VDC (24	VDC -15 to 15%)					
Power consumption	5 W	9 W	6 W	10 W	7 W	11 W	14 W
Battery lifetime	5 years (at 25°C)	5 years (at 25°C)					
Enclosure rating (front side)	Front operation part:	ront operation part: IP65 (Dust proof and drip proof only from the front of the panel)					
Obtained standards	EC Directives, KC, cU	C Directives, KC, cUL508					
Operating environment	No corrosive gases.	lo corrosive gases.					
Noise immunity	Compliant with IEC61	Compliant with IEC61000-4-4, 2KV (Power cable)					
Ambient operating temperature	0 to 50°C	0 to 50°C					
Ambient operating humidity	10% to 90% RH (with	10% to 90% RH (without condensation)					

Brand

Applicable Controllers

Brand	Series			
OMRON	Omron C Series Host Link			
	Omron CJ/CS Series Host Link			
	Omron CP Series			
Mitsubishi	Mitsubishi Q_QnA (Link Port)			
	Mitsubishi FX-485ADP/485BD/422BD (Multi-station)			
	Mitsubishi FX0N/1N/2N/3G			
	Mitsubishi FX1S			
	Mitsubishi FX2N-10GM/20GM			
	Mitsubishi FX3U			
	Mitsubishi Q series (CPU Port)			
	Mitsubishi Q00J (CPU Port)			
	Mitsubishi Q06H			
Panasonic	FP series			
Siemens	Siemens S7-200			
	Siemens S7-300/400 (PC Adapter Direct)			
Allen-Bradley*1 (Rockwell) AB DF1 AB CompactLogix/ControlLogix				

Schneider	Schneider Modicon Uni-TelWay
	Schneider Twido Modbus RTU
Delta	Delta DVP
LG (LS)	LS Master-K Cnet
	LS Master-K CPU Direct
	LS Master-K Modbus RTU
	LS XGT CPU Direct
	LS XGT Cnet
GE Fanuc Automation*1	GE Fanuc Series SNP GE SNP-X
Modbus	Modbus ASCII
	Modbus RTU
	Modbus RTU Slave
	Modbus RTU Extend
	Modbus TCP

Series

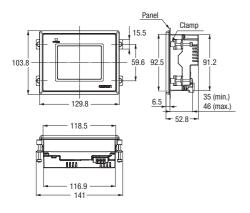
Note: For details, refer to NB Series Host Connection Manual (Cat.No V108).



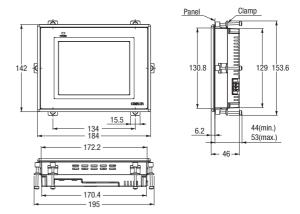
 $^{^{\}star1}~$ AB and GE will be supported by NB-Designer version 1.20 or higher.

Dimensions (Units: mm)

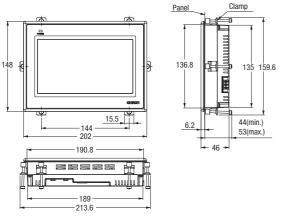
NB3Q



NB5Q

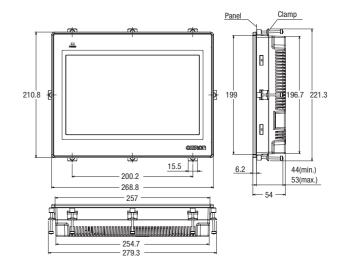


NB7W



Model	Panel cutout (H × V mm)
NB3Q	119.0 (+0.5/-0) × 93.0 (+0.5/-0)
NB5Q	172.4 (+0.5/-0) × 131.0 (+0.5/-0)
NB7W	191.0 (+0.5/-0) × 137.0 (+0.5/-0)
NB10W	$258.0 (+0.5/-0) \times 200.0 (+0.5/-0)$

NB10W



Applicable panel thickness: 1.6 to 4.8 mm

Related Manuals

Cat. No	Model	Name
V106	NB-Designer	NB Series NB-Designer Operation Manual
V107	NB3Q, NB5Q, NB7W, NB10W	NB Series Setup Manual
V108	NB3Q, NB5Q, NB7W, NB10W	NB Series Host Connection Manual
V109	NB3Q, NB5Q, NB7W, NB10W	NB Series Startup Guide

Ordering information

Programmable Terminals

Product name	Specifications	Order code
NB3Q	3.5 inch, TFT LCD, Colour, 320 × 240 dots	NB3Q-TW00B
	3.5 inch, TFT LCD, Colour, 320 \times 240 dots, USB Host, Ethernet	NB3Q-TW01B
NB5Q	5.6 inch, TFT LCD, Colour, 320 × 234 dots	NB5Q-TW00B
	5.6 inch, TFT LCD, Colour, 320 \times 234 dots, USB Host, Ethernet	NB5Q-TW01B
NB7W	7 inch, TFT LCD, Colour, 800 × 480 dots	NB7W-TW00B
	7 inch, TFT LCD, Colour, 800×480 dots, USB Host, Ethernet	NB7W-TW01B
NB10W	10.1 inch, TFT LCD, Colour, 800 × 480 dots, USB Host, Ethernet	NB10W-TW01B

Options

Product name	Specifications	Order code
NB-to-PLC Connecting cable	For NB to PLC via RS-232C (CP/CJ/CS), 2m	XW2Z-200T
	For NB to PLC via RS-232C (CP/CJ/CS), 5m	XW2Z-500T
	For NB to PLC via RS-422A/485, 2m	NB-RSEXT-2M
Software	Supported Operating Systems: Windows 7, Windows Vista [®] , Windows XP ^{*1} (SP1 or higher). Download from Omron's regional websites.	NB-Designer*2
Display protective sheets	For the NB3Q contains 5 sheets	NB3Q-KBA04
	For the NB5Q contains 5 sheets	NB5Q-KBA04
	For the NB7W contains 5 sheets	NB7W-KBA04
	For the NB10W contains 5 sheets	NB10W-KBA04
Attachment	Mounting bracket for NT31/NT31C series to NB5Q series	NB5Q-ATT01

Except for Windows XP 64-bit version
 The NB5Q-TW01B and NB7W-TW01B are supported by NB-Designer version 1.10 or higher.
 The NB3Q-TW0_B and NB10W-TW01B are supported by NB-Designer version 1.20 or higher.