Reliable
& Smart™

V9 Plus Series
The New Concept of Premium Touch Panel

AnyTouch

RS Reliable & Smart
Automation
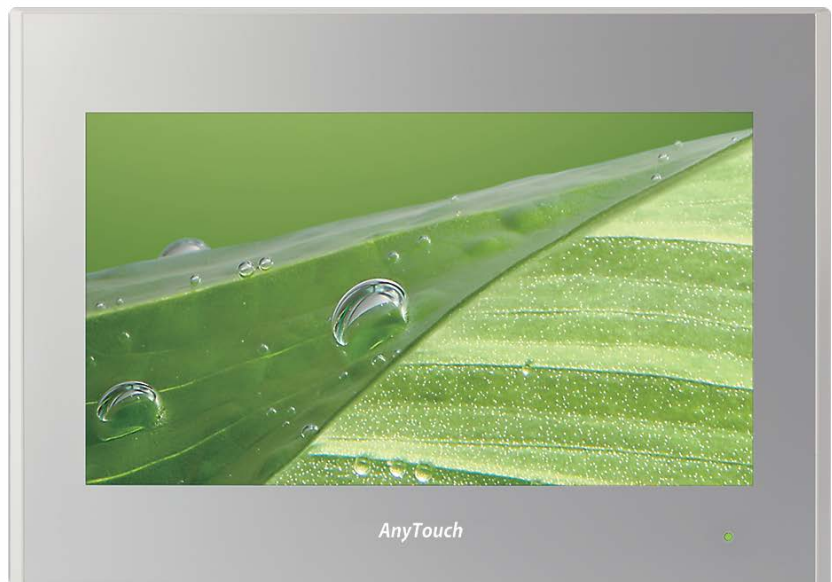
V9 **Plus** Series

The Best Touch Panel for Precise Control and Easy Monitoring, AnyTouch V9 Plus Series.

High Performance

Connectivity

Usability

AnyTouch V9 Plus Series

V9 Plus Series Lineup

We provide a wide range of product choice according to applicable application and Ethernet based mounting for the convenience of customers.

Product Selection

V9 ☐☐☐☐☐☐ p

Symbol	Funtional Specifications
None	AC Power
D	DC Power

Symbol	Display Size
06	5.7 inch
07	7 inch
08	8.4 inch
10	10.4 inch (*Wide model : 10.1)
12	12.1 inch
15	15 inch

Symbol	Functional Specifications
0	Analog resistance film
1	Capacitive Sensing

Symbol	Functional Specifications
None	Standard
i	Advanced

Symbol	Display Specification
W	TFT(WVGA, WSVGA)
X	TFT(XGA)
S	TFT(SVGA)
T	TFT(VGA): V9060iTD+
C	TFT(VGA)

Symbol	Functional Specifications
R	WiFi
L	LAN
RL	WiFi, LAN

NEW V9p

	15 inch	12.1 inch	10.4 inch	8.4 inch	7 inch	5.7 inch
V9p Advanced			V910*iWp Series WSVGA(1024 x 600), 10.1 inch		V907*iWp Series WVGA(800 x 480)	
V9p Standard	V9150iXp Series XGA(1024 x 768)	V9120iSp Series SVGA(800 x 600)	V9100iSp Series SVGA(800 x 600)	V9080iSp Series SVGA(800 x 600)		
V9p Lite			V9100iCp Series VGA(640 x 480)	V9080iCDp VGA(640 x 480)		V9060iTDp VGA(640 x 480)

Display·Touch Screen

V9 Plus Series take into capacitive sensing type so that possible to have Flexible operation.※1
The fine can be represented by the 16.7 million color representation.※2

※1 Capacitive Sensing type corresponds to only V9p advanced model.
※2 Correspond to only pictures, 3D parts and video outputs, other items can be output with 65,536 colors.
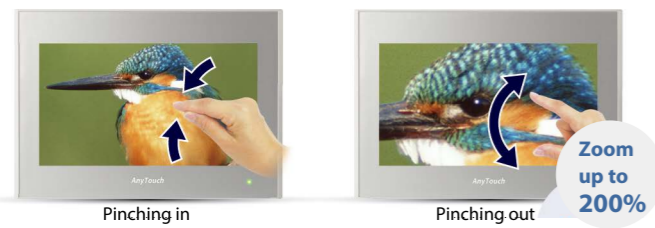
Touch Screen

Zooming In and Out with Pinch (Two Fingers)

The displayed image can be magnified up to 200% by pinching out the screen※, and reduced to the original size by pinching it in. **V9p Advanced**

Pinching in   Pinching out

Zoom up to 200%

※ The image can be scaled up and down by double tapping for V9p Standard/Lite.

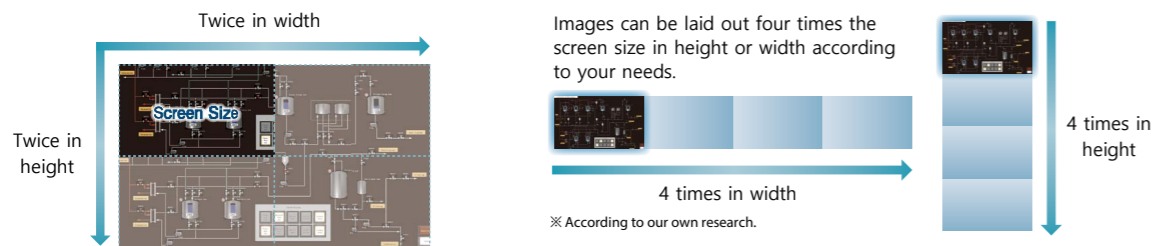### Scrolling Magnified Images

You can view a particular part of a magnified image in close-up while scrolling around the screen.

Abundant Quantity of Information

Displaying Four Times the Screen Size   **First in industry**

The whole area of a large image can be confirmed easily by scrolling the screen without the need of switching it. The navigation window helps you to recognize the current displayed position instantly.

Twice in width
Twice in height
Screen Size

Images can be laid out four times the screen size in height or width according to your needs.

4 times in width
4 times in height
※According to our own research.

Widescreen LCD   **V9p Advanced**

V9+ Advanced models is equipped with a high-precision, high-resolution widescreen (16:9). Greater volume and variety of information can be displayed on the screen.

4:3(800×600px)
16:9(1024×600px)
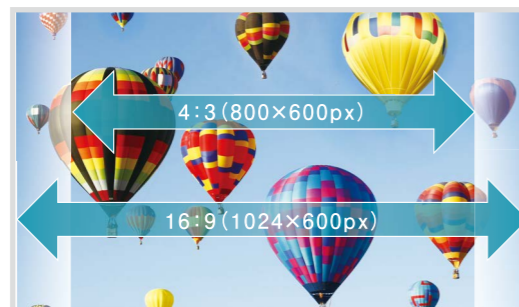
Enhanced Display Capacity

True Type Fonts for Clear Expression

TrueType fonts have been added, and the new anti-aliasing function ensures clear expression. There is no need to worry about memory capacity, because TrueType fonts need less memory compared with Windows fonts.

Before smoothing   After smoothing

7-Segment Fonts for Realistic Expression

7-segment fonts allow for realistic, highly visible expression of measuring instruments.
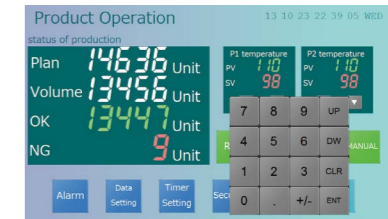
Improved 3D Parts Enlargement Function

The form of 3D parts is remained even when they are enlarged.※
※ Only square switches / lamps.

Only the inside part is enlarged separately from the frame.
Enlarging
Previous
New
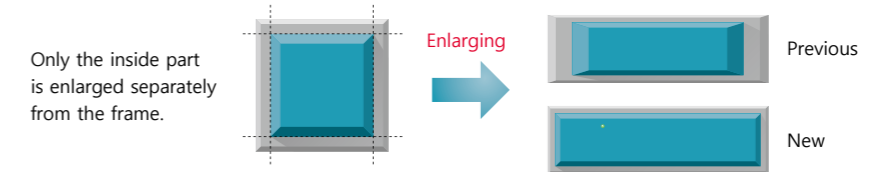
Versatile Screen Transition Functions

15 kinds※ of functions are available for screen switching and overlapping.
※ Four types for overlapping windows.

E.g.) Slide-in

Compatible with Vertical Placement

The screen can also be displayed and edited while the panel is placed vertically (by left or right turning).

V9101iWp   V9100iSp

Main Menu Screen can also be displayed vertically.

Beautiful and Practical Icons

The same part as smart phones has been added. The number of optional icons has been more beautiful and easy-to-understand. The icons are PNG files, so there is no worry about the display capacity.
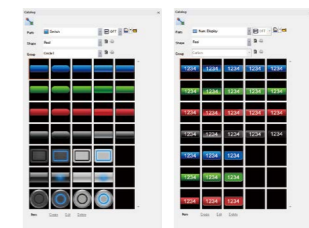
Video Player Function

A video player function is provided with all models of the V9p Series. The video player can be operated by a switch on the V9p or a command from the system menu or PLC. Animated images used for operation instruction and other operations will reduce the down time(Stop time) of machines and facilitate the standardization of operation.

Loading → **MP4 file** / **32GB**

※ Please see the specifications (P.22) for models with sound output function.
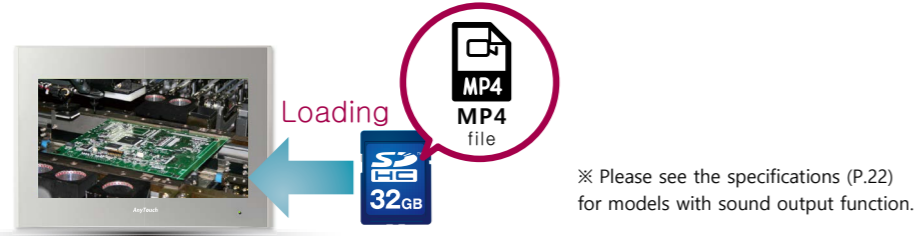
PDF Viewer Function

PDF files stored on SD cards can be displayed. PDF instruction manuals can be used for troubleshooting.

Loading → **PDF file** / **32GB**

Convenient

Fast navigation to the desired page, using bookmarks.
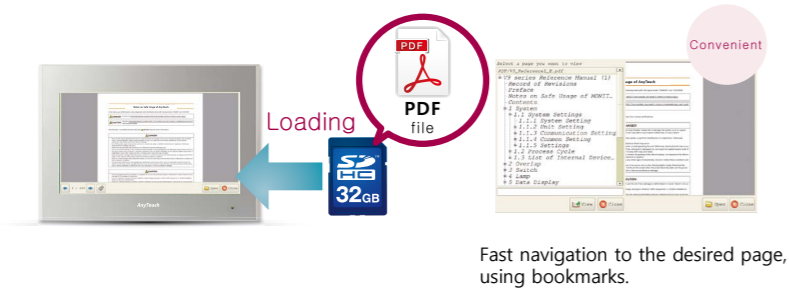
Video/RGB Input-Output Support

By attaching an optional unit, videos and RGB images can be displayed on the V9p. Also, images displayed on the V9p can be sent to external displays.

Supports 16.7 million colors

V9p series

Optional unit

Model	Item
GUR-00	Video 4CH input
GUR-01	RGB 1CH input
GUR-02	RGB 1CH output
GUR-04	Video 1CH input
GUR-10	Video 2CH input RGB 1CH input
GUR-11	RGB 2CH input
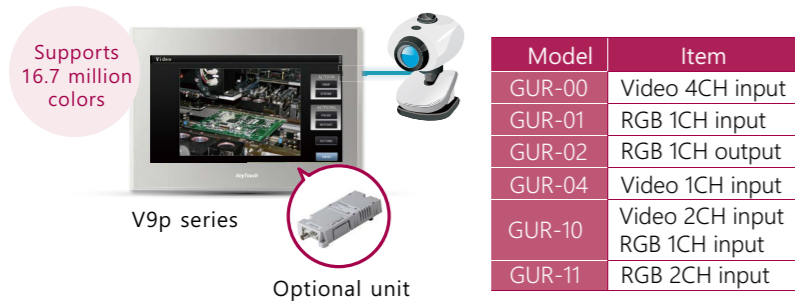
VNC Server and Wireless LAN

VNC Server Function enables the operation, share and surveillance of the V9p screen on the remote site through a simple software installation. Moreover, Wireless LAN Function can work without cable connection more conveniently.

█ VNC Server Function

Remote Connection from Tablet

All types of the V9p series are equipped with VNC server function for remote monitoring and control of production from your tablet.

Monitoring

Control

Direct Communication with your Tablet   V9p Advanced

V9p Advanced model incorporates an access point, which enables direct communication with a wireless device without an external access terminal.

No access point required for wireless LAN

█ Wireless LAN Function   V9p Advanced

Wireless Data Transfer

By connecting a PC to a V9p via wireless LAN, screen data can be shared and ladder programs transferred to the PLC. It is easy to debug the program on site without connecting to the cable.

Screen data
Ladder data
FTP Server
FTP Client

Ladder data

PC   PLC
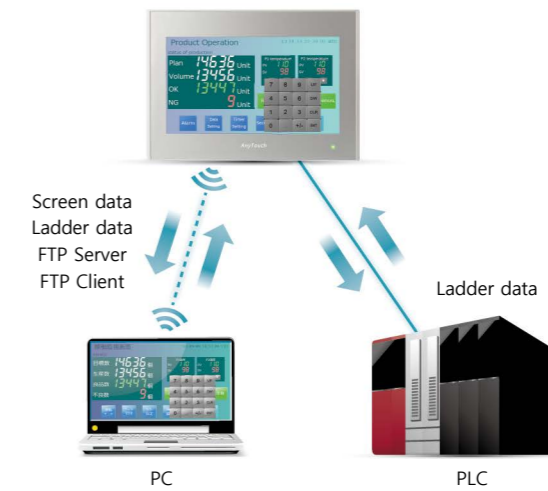
Gateway Function

Production data can be transferred between machines using V9p panels as a gateway.

PLC   PLC
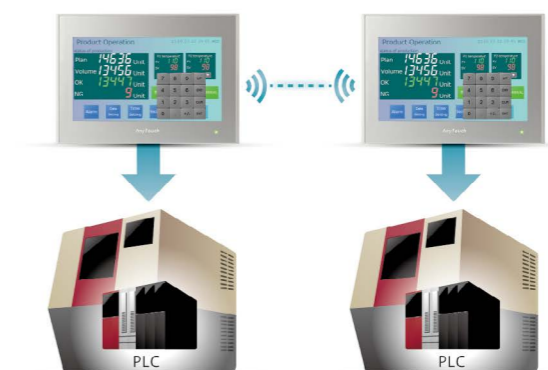
Networking

The standard built-in VPN function which create a secure virtual leased line by using public network.

Can be constructed at the Secure, Easy and Low-cost remote monitoring system by VPN Function.

VPN Function

Secure, Easy and Low-cost Communication by VPN Function

The VPN function, which constructs a virtual private network within a public network, enables secure remote monitoring at low cost.

TELLUS and V-Server   Ladder Program   Camera administration software   VNC client

Blocking   VPN Tunnel

VPN   VPN   Ethernet

PC   PLC

VPN Server

Office   Factory
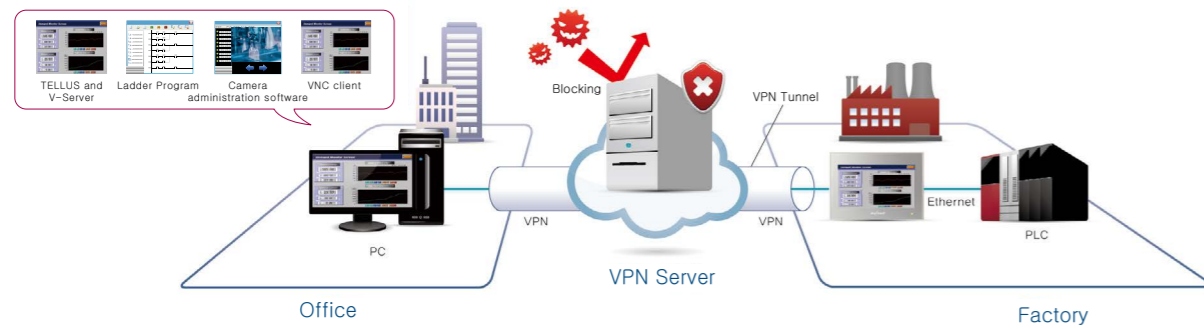
Router Function for Remote Connection※ **V9p Advanced**

The routing function enables remote connection to any devices connected with a V9p via Ethernet.

※ Only LAN port of 2CH.

VPN server   Ethernet

PLC   Network camera
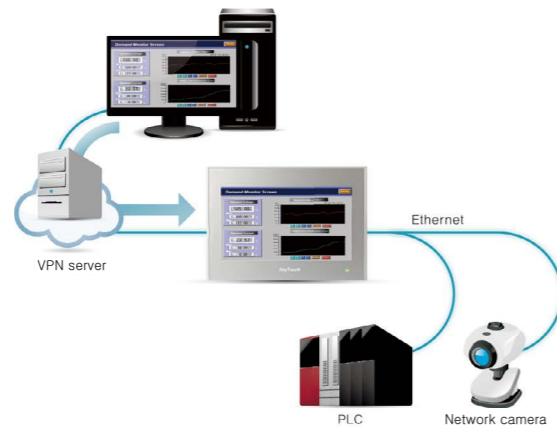
Dual LAN Ports Connecting to Two Networks※

Two networks can be connected via a V9p as a gateway.

※ Other models except for advanced models need an optional communication unit. Please contact us for details.

Management network   Production control network
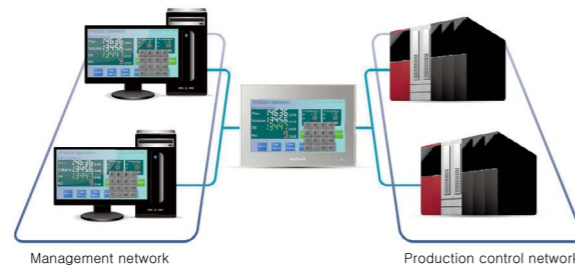
Network Function

E-mail Transmission Function Support

E-mails can be sent to preset addresses when alarms are issued or lifted. Addresses can be set for each type of alarm.

mail

Alarm

E-Mail   Office

V9p series

Secure   **Enhanced Security**

SSL/TLS transmission is supported, so you can work with peace of mind.

Ladder Program Transmission (3-way) Support

Up to 3 PLCs are accessible to monitor and revise PLC programs by connecting a PC to V9p via Ethernet.

PLC(Ladder) soft

Ethernet

Read/write/monitor of the ladder program

Serial

① CN1   ② MJ1   ③ MJ2
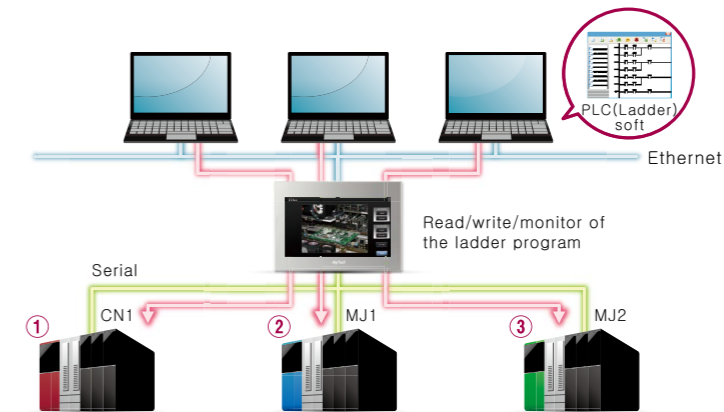
FTP Server / Client Support

FTP Server Function

Files in a storage media inserted in a V9p can be read out and written using a PC.

FTP Client Tool

Ethernet

Access

● Recipe data
● PDF file
● Image data
● Audio data

V9p series
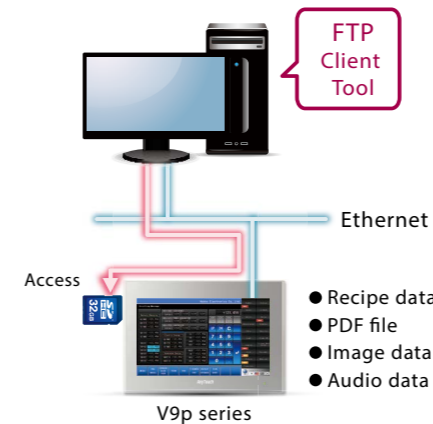
FTP Client Function

Files on an FTP server can be read and written using a V9p. It is also possible to use a V9p as an FTP server and access its sotred data.

FTP Server

Access

Ethernet

● Logging data
● Alarm history
● Operation log
● Image
   (Hard copy, snaps)
● Report data

V9p series
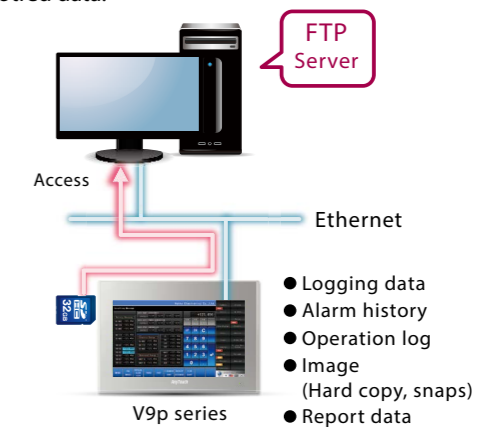
Logging·Alarm·Overlap

Trends and the alarm function for effective logging are expanded, so you can use them very conveniently.
Moreover, the expression was significantly increased by extending the overlap function with eased restriction.

Data Backup and Trend Data

Backup Data Display and Create a Simple Backup File

Backup and alarm backup data can be displayed on V9p.
Backup files can be created automatically via Scheduler

Backup file   Destination for data save can be selected freely.
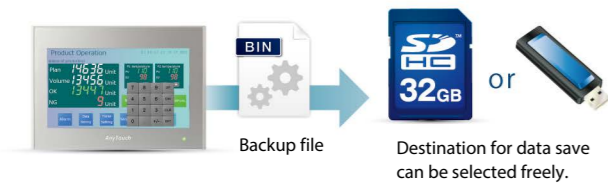
Magnification of Trend Graph Scale

The time scale or trend graph can be magnified, and the display can be scrolled by touch and drag.

Scale-up   Scale-down

Scrolling
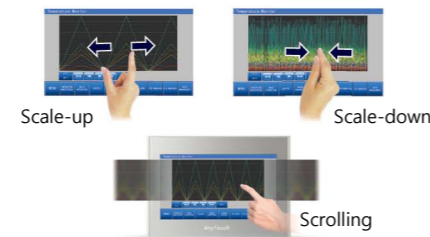
Backup Data Display

Backup files can be loaded and displayed on V9+. Also Alarm backup data can also be displayed.

Backup file

Link with scheduler function.

Bit operation or macro can be execute with preset time. Log start · stop · data preservation can be operate by associating with log setting,

Log start · stop   Creat Backup file
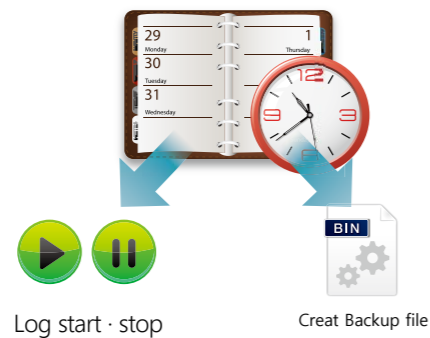
Alarm Display

Scrolling of the Alarm Messages

The entire alarm message can be displayed by scrolling the screen with touch and drag.

Displays the full alarm zone by scrolling

Running Emergency Messages

Alarm messages run automatically at a specified position when alarms are occurred.

Flowing Message
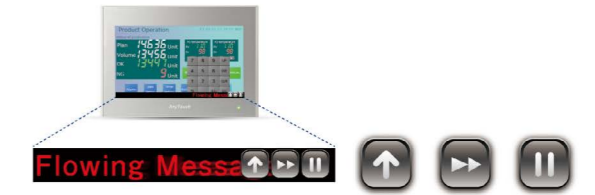
Screen Overlapping

Improved Overlapping Functions

Up to 10 windows can be overlapped on the screen.

All of the 10 windows can be overlapped transparent effect.

All of 10 windows support the global overlapping that can be displayed regardless of the screen switching.

Select items to use global overlapping
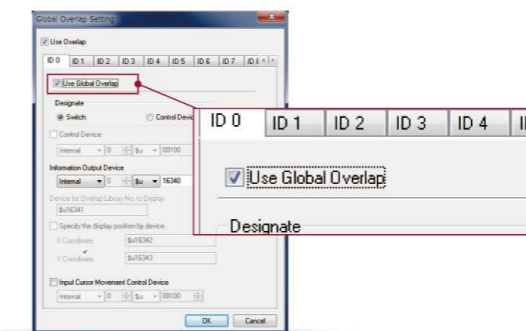
Four kinds of functions such as slide-in and fade-out are available for screen switching and overlapping.

Take advantage of the overlap as a sub-screen display. Without changing the main-screen, you can also scroll the sub-screen only.

Advanced Function Setting

Adding various setting functions has achieved the simplicity of use. Moreover, visualized all the information so can now respond faster to determine the situation at a glance.

Operation Log

Improved Operation Log Viewer

The operability and visibility of the log viewer have been improved.

Improved Operability Visibility

Log display area	Title line
Double–tapping for displaying details.	Filtering for each item.※1
Setting	**File change**
Viewer display setting	A log file selected for display

※1　Correspond to the search Function
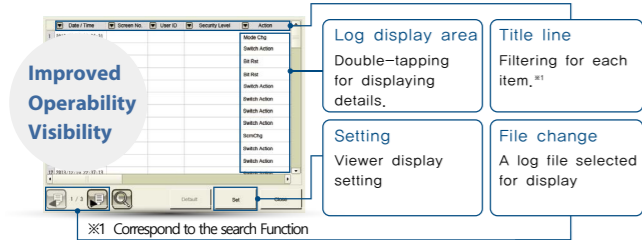
Search Function (Under development)

Operation log can be searched for by specifying an operator or date/time.
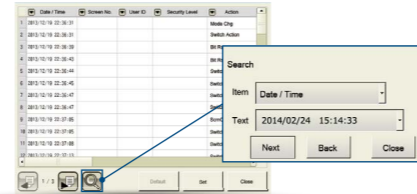
Log Viewer as Standard Specification

The log viewer is simply accessed by selecting it from the drop-down menu. Visibility and operability have been improved by this update.

Easy setting
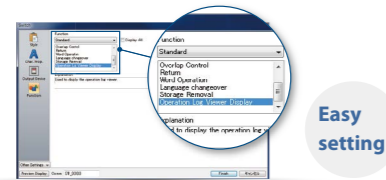
Item Setting

Operating log creation is set for individual switch and input.
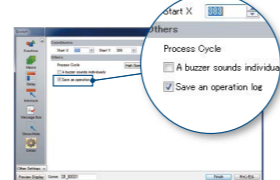
Filter / Sort Settings

Filter and sort can be set for displayed items.
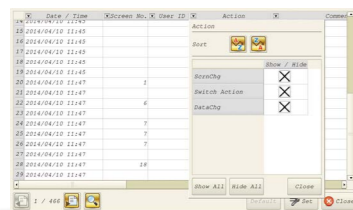
Display Item Settings

It is possible to select items to display in the operation log.
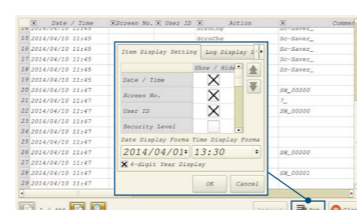
Display Functions

Easy-to-see Error Indication

「Indication of a communication error」

The item with an error is indicated with an error icon at the top right.
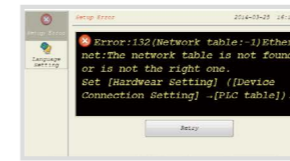
「Improvement of error messages」

An error is described in a sentence for easy comprehension.

Display of V9p Status

The status of V9p is displayed in the status bar.

※　The contents of the status indication are subject to change.

System Keyboard Available

A versatile keyboard for inputting upper and lower case letters and numbers is available for easy setting. Select the system keyboard from the set menu.
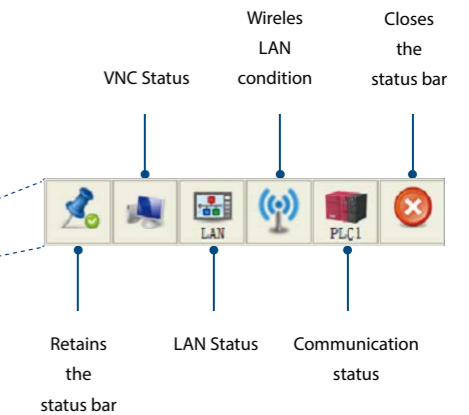
Setting in Local Windows※

Easy Monitoring and Setting of Communication, Backlight and Buzzer

Communication setting
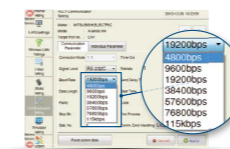
Backlight setting
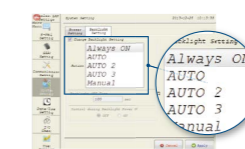
Buzzer setting
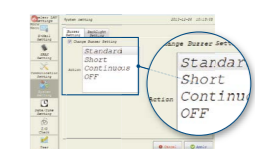
Network test
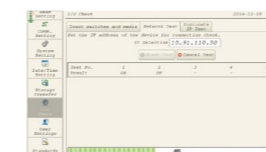
E-Mail setting
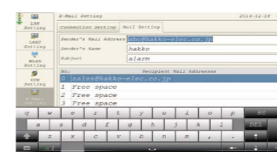
User-defined setting
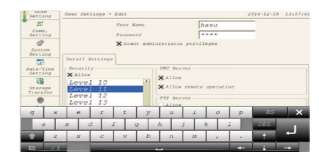
※　The content of local windows is subject to change.

V-SFT PLUS Ver.6

Improved in visibility and operability makes more perfect implement of screen with only a simple operation.
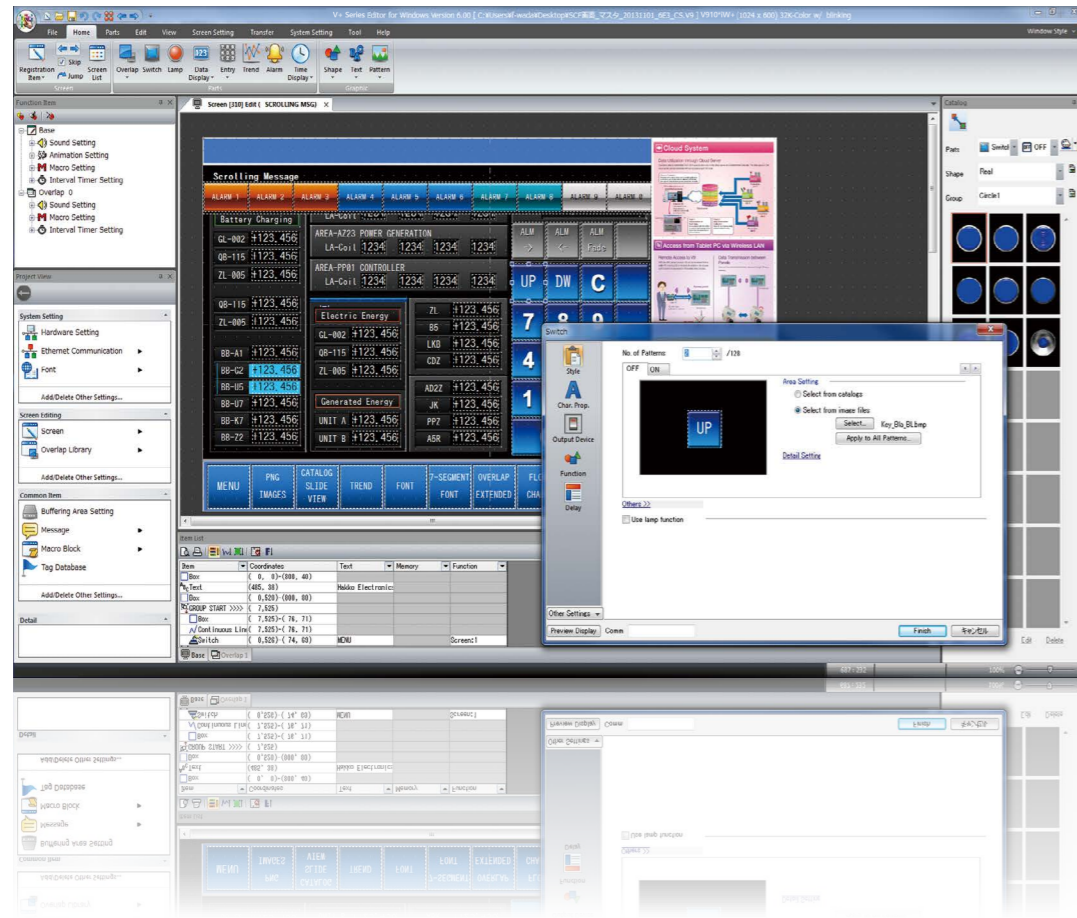
Item	Specifications
PC	PC/AT compatible machine with Windows
OS※	Windows XP / XP 64bit Edition / Vista 32bit / Vista 64bit / Win7 32bit / Win7 64bit / Win8 32bit / Win8 64bit / Win8.1 32bit / Win8.1 64bit / Win10 32bit / Win10 64bit
CPU	Pentium III 800MHz (Pentium 4 2.0GHz or higher is recommended)
Memory	2.0G or higher
Hard Disk	For installation : 1.8GB or more available space
Disk Driver	DVD-ROM Drive
Display	Resolution 1024 × 768 (XGA) or higher
Color Indication	High Color (16bit) or higher
Others	Microsoft .NET Framework 4.0 or 4.5 is required. (When .NET Framework 4.0 or 4.5 has not been installed in PC, Framework 4.0 is installed automatically.)

※ For installing the OS, adminitrator authority is required.

Compatibility with Previous Models

V8p series Compatibility

V-SFT Plus Ver.6 provides intuitive operation, with easy-to-use visual tools and refined displays. In addition to the V9p series, V-SFT Plus Ver.6 is also compatible with the V8p series.

Compatible with Program from Legacy Products

Screen program produced using previous versions of V-SFT Plus can be converted for use in the current model. It is possible to use former screen program assets.
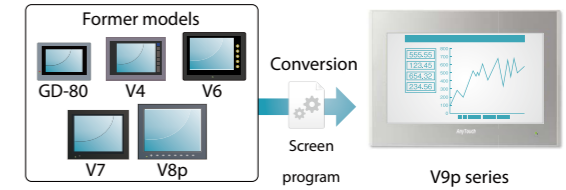
Upgraded Beautiful GUI

Wider Range of Parts

New Plain part has been added with the update of previous Real/Sign part. Possible to make stylish and beautiful display with only the part that is built already.

Newly added the plain part

Popular simple icons that are used widely on smartphones have been introduced.
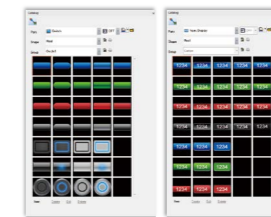
Increased picture icons

The number of the picture icons has been increased.

Line Width Setting

The line widths of graphic items and trend items (graph lines, reference lines) can now be set in eight steps. Effective screens can be created using a variety of drawing tools and graph representations.

1 point
2 points
3 points
4 points
5 points
6 points
7 points
8 points

※ Excluding thick lines

Pasting of an Image File

It is possible to paste a PNG file directly onto the screen. JPG, BMP and GIF formats are also supported as image files, allowing you to create whatever visually impressive screen you choose.

Copy / Paste of Microsoft Office

Graphics created in Microsoft Office Word, Excel and PowerPoint can be copied and pasted into V-SFT Plus files by converting them to pictures, patterns or parts.
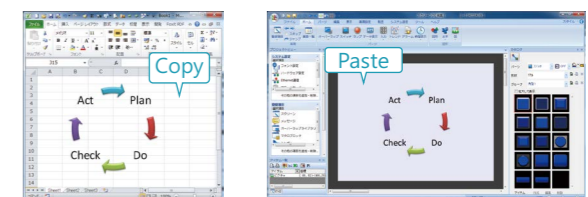
Upgraded Operation

Ribbon Menu

The ribbon-shaped menu bar is available. Enlarged icons are easily visible also improves the operability remarkably.

[Home menu]

[Edit menu]

[Part menu]

[Display menu]
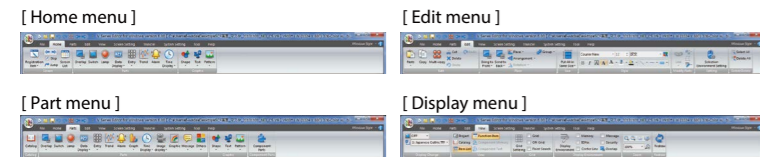
Configuration Menu of the Connected Device

Can be recognized instantly the hardware setting menu from connected devices on V9p/W8p series.
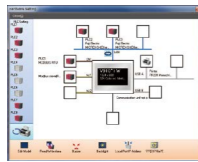
Docking Windows

The project view windows and item view windows can be docked or floated easily.
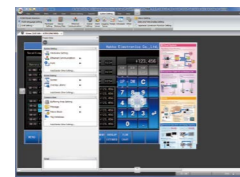
Ladder Diagram for Interlock

Ladder shows at the interlocking tab of switch.
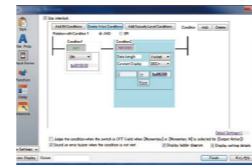
Integration of Search Menu

The search menu, which used to be displayed separately, has now been integrated for easy operation.
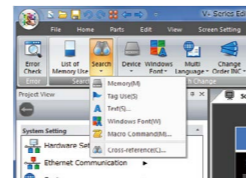
Character String Table

Text for switches, lamps and other parts can be managed centrally using the character string table. Frequently used text can be registered in the table for easy reference and batch modification.

※ Swtiches, lamps, text and multi text only.
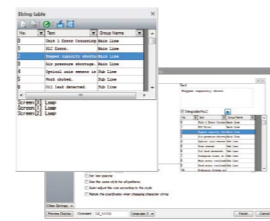
Facilitation of Screen

Guided Setting Process

With the help of the clear instructions in the dialog, setting can be conducted smoothly and collectively.

A Wider Range of Colors for 3D Parts

65,536 colors are available for components parts.
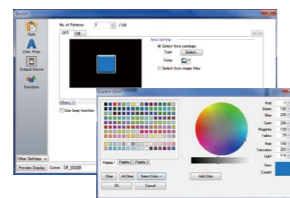
Visualization of Setting

The setting can be confirmed easily even on a PC with low resolution.
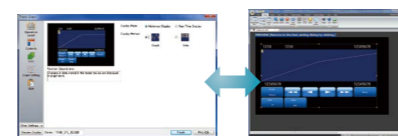
Tool Hints to Support Configuration

Tool hints are provided at many points to support configuration. When you hover the mouse over the item, a hint for operation will appear. You can learn the procedure for configuration without referring to the manual.
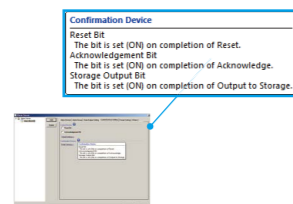
Direct Editing with the Item View

In the item view, an indication range and component parts consisting of various parts including switches are selected. Since there is no need to select various items respectively, smooth and efficient editing is possible.
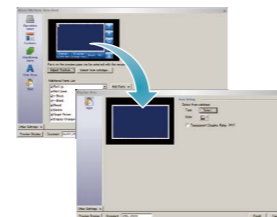
Dimensions and Part Names

V9101iWp
(Unit:mm)
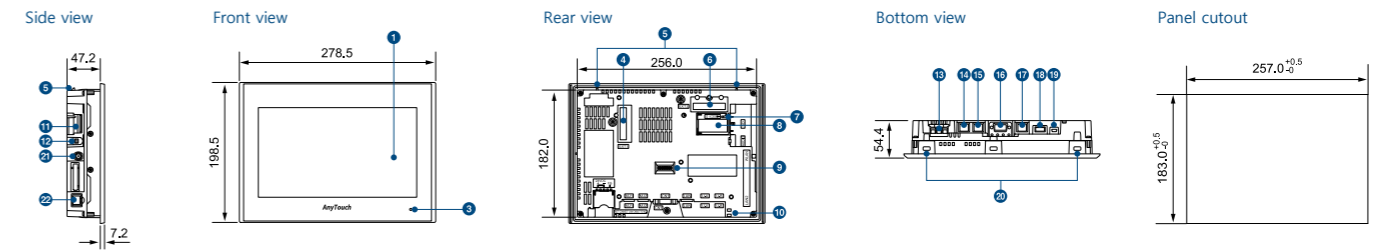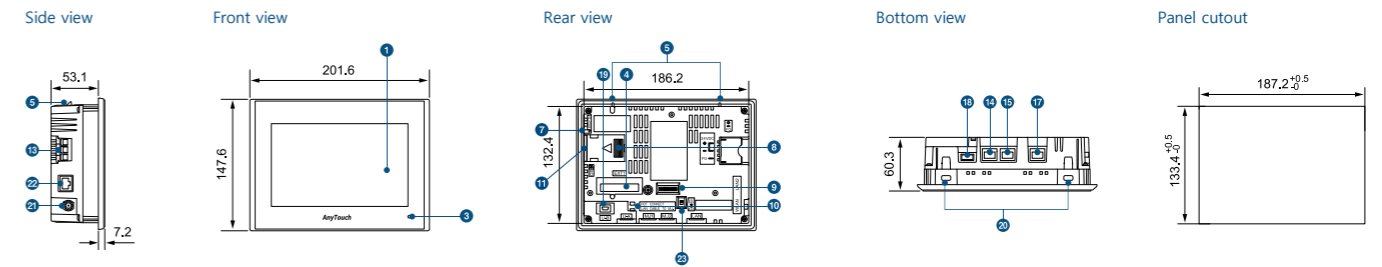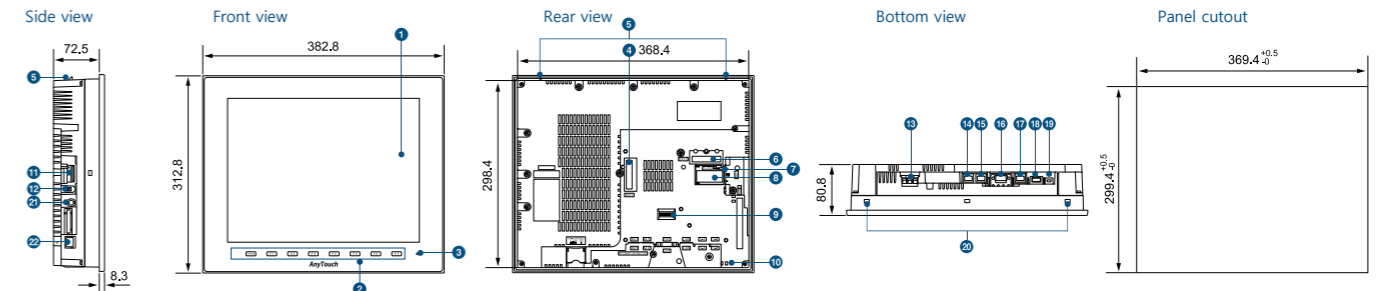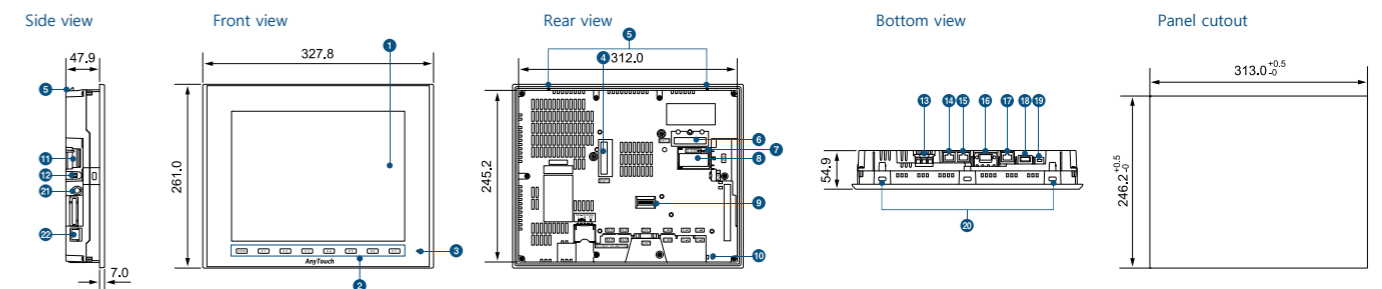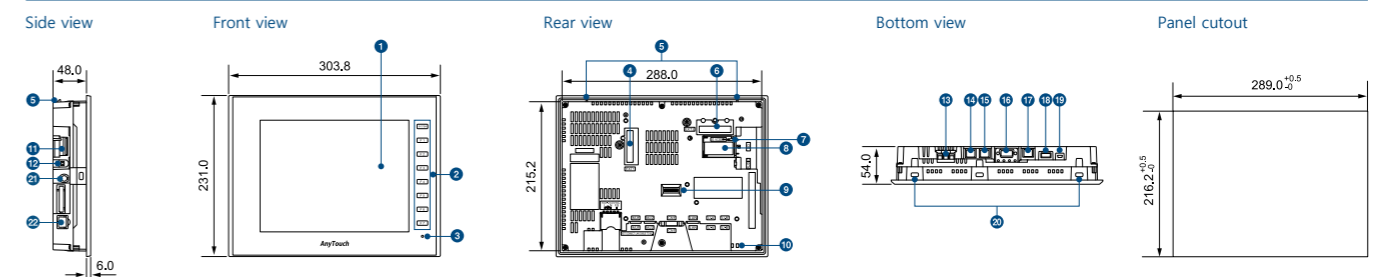
Side view   Front view   Rear view   Bottom view   Panel cutout

V9071iWp
(Unit:mm)

Side view   Front view   Rear view   Bottom view   Panel cutout

V9150iXp
(Unit:mm)

Side view   Front view   Rear view   Bottom view   Panel cutout

V9120iSp
(Unit:mm)

Side view   Front view   Rear view   Bottom view   Panel cutout

V9100iSp
(Unit:mm)

Side view   Front view   Rear view   Bottom view   Panel cutout

Dimensions and Part Names

V9080iSDp
(Unit:mm)

Side view | Front view | Rear view | Bottom view | Panel cutout

V9100iCp
(Unit:mm)

Side view | Front view | Rear view | Bottom view | Panel cutout

V9080iCDp
(Unit:mm)

Side view | Front view | Rear view | Bottom view | Panel cutout

V9060iTDp
(Unit:mm)

Side view | Front view | Rear view | Bottom view | Panel cutout
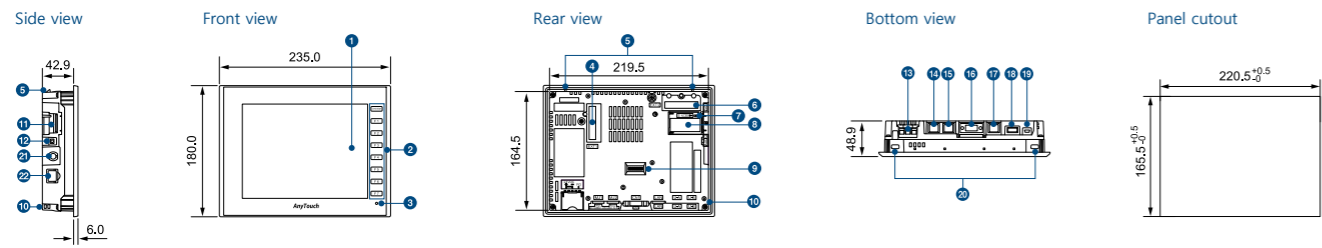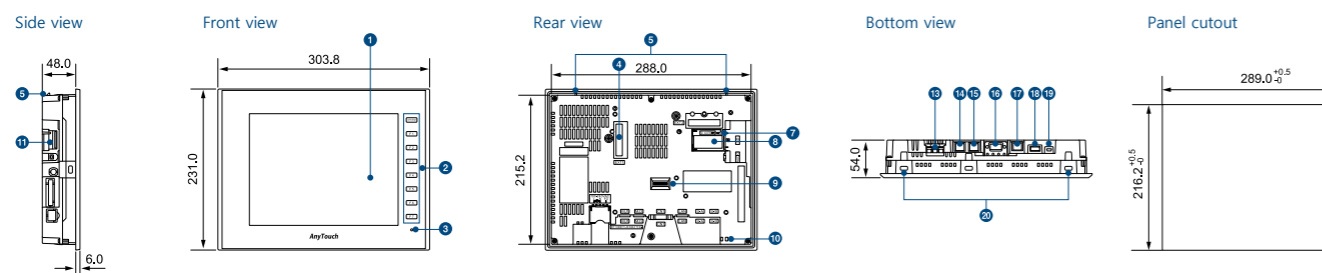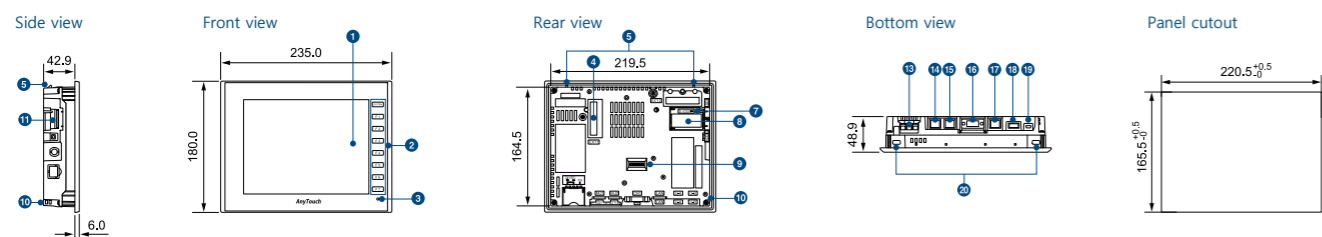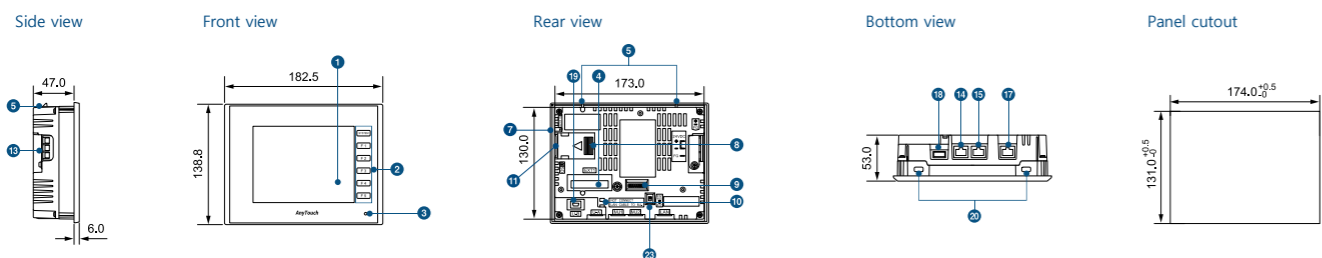
Part Names

❶ Display	❼ SD card access LED	⓭ Power input terminal block	⓳ USB mini-B (U-B)
❷ Function switch	❽ Battery holder	⓮ Modular jack 1(MJ1)	⓴ Screw hole
❸ POWER lamp	❾ DIP switch	⓯ Modular jack 2 (MJ2)	21 Wireless LAN antenna connector (WLAN)
❹ Communication unit connector(EXT1)	❿ USB cable holding hole	⓰ PLC connector(CN1)	22 100BASE-TX/10BASE-T port(LAN2)
❺ Fall prevention hook	⓫ SD card connector(SD)	⓱ 100BASE-TX/10BASE-T port(LAN)	23 Slide switch
❻ Optional unit connector(EXT2)	⓬ Soud output connector(AUDIO)	⓲ USB-A (U-A)	

Optional Units

▌ Option/Extension Units

- · GUR_00 (Video input 4CH)
  - Display images from video cameras on V9p directly.

- · GUR_01 (RGB input 1CH)
  - Display RGB input on V9p.

- · GUR_02 (RGB output 1CH)
  - Displays images of V9p on a monitor.

- · GUR_04 (Video input 1CH)
  - Displays images from a video camera directly.

- · GUR_10 (Video input 2CH+RGB input 1CH)
  - Displays images from video camera and RGB input on V9p simultaneously.

- · GUR_11 (RGB input 2CH)
  - Display RGB images such as PC images through two channels on V9p simultaneously.

▌ Software

V-SFT PLUS 6

Windows XP / XP 64bit Edition / Vista 32bit /Vista 64bit / Win7 32bit / Win7 64bit / Win8 32bit / Win8 64bit / Win8.1 32bit / Win8.1 64bit / Win10 32bit / Win10 64bit
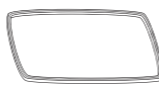
▌ Other Units
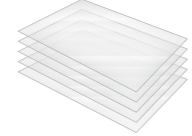
TC_D9 (Terminal converter)

Connects V9p with other units via RS-422/485 terminal.

V9xxx_WP

Waterproof gasket for V9p

D9_D25

Replacement cable for CN1 cable of V6/V7 series.
Cable Length : 0.3M)

V9_ANT

Antenna for V9p models compatible with wireless LAN.

▌ Communication Units

- · CUR_00 (OPCN_1)
- · CUR_01 (T_Link)
- · CUR_02 (CC_Link)
- · CUR_03 (Ethernet)
- · CUR_09 (EtherCAT)
- · CUR_04 (PROFIBUS_DP)
- · CUR_06 (SX bus)
- · CUR_07 (DeviceNet)
- · CUR_08 (FL_net)

▌ DUR-00 (Optional unit for V907xiWp, V9060iTDp)

Used for serial connection with D-Sub 9Pin.

▌ Cables

Type	Configuration	Connected to
V_CP	RS-232C modular 8pin — D-Sub 9pin(F) Length: 3m	PC
V6_BCD	RS-232C modular 8pin Length: 3m	Bar code reader
V6_MLT	RS-485 modular 8pin Length: 3m	AnyTouch V9p/V8p/V7/V6
V6_TMP	RS-232C/485 modular 8pin Length: 3,5,10m	Temperature Controller, Inverter, etc.
UA_FR	Type A Length: 1m	Card reader/ writer, USB memory, etc.

V9_BT

A replacement lithium battery for V9p series. (Except of V907xiWp series and V9060iTDp.)

V9xxx_GS/V9xxx_GSN10

Protection sheets for panels
(5 sheets per set).
N10 is a non-glare type sheet.

Panel adapter (PAD-Vxxx)

Used when fitting V9p into V4/GD_80/ GD_65/GD_64 panel cutout. Contact our technical helpdesk for details.

V7_BT

V907xiWp, V9060iTDp
Replacement lithium battery of V7 and V8p series.

General Specifications

Item		V9101iW+	V9071iW+	V9150iX+	V9150iXD+	V9120iS+	V9120iSD+
Power supply	Rated voltage	DC24V		AC100~240V	DC24V	AC100~240V	DC24V
	Permissible range of voltage	±10%		-15%, +10%	±10%	±10%	±10%
	Permissible momentary power failure	Within 1ms		Within 20ms (AC100V or higher)	Within 1ms	Within 20ms (AC100V or higher)	Within 1ms
	Power Consumption Max. rating)	27W or less	22W or less	90VA or less	40W or less	70VA or less	28W or less
	Rush Current	17A or less, 6ms	10A or less, 6ms	30A or less, 3ms	19A or less, 7ms	30A or less, 3ms	18A or less, 5ms
Insulation resistance		DC500V 10MΩ					
Physical environment	Ambient temperature	0~50℃※1		0~40℃※1		0~60℃※1	
	Ambient humidity	85%RH or less (without dew condensation)※1					
	Operation altitude	2,000m or lower					
	Atmosphere	Not to be exposed to corrosive gas, or conductive dust					
	Storage temperature	-10~60℃※1		-10~50℃※1		-10~60℃※1	
	Storage humidity	85%RH or less (without dew condensation)※1					
	Contamination level	Level 2					
Mechanical operating conditions	Resistance to oscillation	JIS B 3502(IEC61131-2) compliant, Vibration frequency : 5~9Hz Half-amplitude: 3.5mm, Vibration frequency: 9~150Hz, Constant acceleration: 9.8m/s² (1G), X, Y, Z 3 directions (10 times each)					
	Resistance to shock	JIS B 3502(IEC61131-2) compliant, Peak acceleration : 147m/s² (15G), X, Y, Z 3 directions, 3 times each (18 times in total)					
Electric operating conditions	Resistance to noise	Noise voltage : 1000Vp-p, Pulse width : 1μs, Pulse rise time : 1ns		Noise voltage : 1500Vp-p, Pulse width : 1μs, Pulse rise time : 1ns	Noise voltage : 1000Vp-p, Pulse width : 1μs, Pulse rise time : 1ns	Noise voltage : 1500Vp-p, Pulse width : 1μs, Pulse rise time : 1ns	
	Resistance to static discharge	Complies with IEC61000-4-2, Contact : 6kV, Air : 8kV					
Installation conditions	Grounding	3 Class resistance, FG/SG separation		3 Class resistance, FG=SG		3 Class resistance, FG/SG separation	
	Structure	Protection structure : Front case : IP66, TYPE4X/13※7※8 (when water-proof gasket is used), Rear case : IP20, Single unit, Installation method : panel mounting					
	Cooling system	Natural air cooling					
	Dimensions W*H*D (mm)	278.5×198.5×54.4	201.6×147.6×60.3	382.8×312.8×80.8		327.8×261.0×54.9	
	Panel cutout (mm)	257.0×183.0(+0.5/-0)	187.2×133.4(+0.5/-0)	369.4×299.4(+0.5/-0)		313.0×246.2(+0.5/-0)	
	Weight	Approx. 1.7kg	Approx. 1.0kg	Approx. 4.7kg		Approx. 2.5kg	
Case color		Light gray		Front case : Silver, Rear case : Light gray		Light gray (Black front housing for black model)	
Material		PC resin		Front case : Aluminum, Rear case : PC resin		PC resin	

※1 Wet-bulb temperature should be 39℃ or lower to prevent malfunction.

Performance Specifications

Item		V9101iW+	V9071iW+	V9150iX+	V9120iSD+
Screen memory(FROM)		64MB			
Backup memory(SRAM)		800KB			
Display	Display device	TFT color LCD			
	Resolution	1024×600	800×480	1024×768	800×600
	Display size	10.1 ″ Wide	7 ″ Wide	15 ″	12.1 ″
	Colors	1.67 million※2			
	Backlight	LED			
	Backlight life	50,000 hours		100,000 hours	70,000 hours
Touch switch	Type	Capacitance		Analog resistance film	
Function switch	Quantity	−		8	
External interface	D-Sub 9-pin(CN1)※3	RS-232C·RS-422/485 Asychronous type Data length : 7, 8 bits Parity : even, odd, none Stop bit : 1,2 bits, Baud rate : 4800, 9600, 19200, 38400, 57600, 76800, 115200, 187500※4 bps			
	Modular 8-pin (MJ1/MJ2)	RS-232C·RS-422/485(two-wire system)※5 Asychronous type, Data length : 7, 8bits Parity : even, odd, none Stop bit : 1,2 bits Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 115200bps			
	SD Card	One card slot provided as standard			
	Ethernet	2CH, Baud rate : 100Mbps, 10Mbps		1CH, Baud rate : 100Mbps, 10Mbps	
	Wireless LAN	Complies with 1EEE802.11b/g/n (2.4GHz)※6			
	USB	Type A, Type mini−B (Ver.2.0)			
	Sound output	1CH provided as standard	−	1CH provided as standard	
Clock	Backup period	5 years (Ambient temperature 25℃)			
	Calendar accuracy	Gap ±90 sec. per month (Ambient temperature 25℃, When the battery is backed up)			
Standard	CE marking※7	EN61000−6−2, EN6100−6−4			
	UL·cUL※7	UL508			UL508, ANSI/ISA12.12.01※9
	KC	Compliant			
	Radio Act※6	Japan: TELEC EU: R&TTE USA: FCC South Korea: KC Canada: IC RSS		Japan: TELEC	

※2 : Only for pictures, 3D parts and videos. Other items are displayed in 65,536 colors. ※3 : Optional unit (DUR-00) is required for the V9071iWp and V9060iTDp.
※4 : Only for Siemens MPI (Incompativie with DUR-00). ※5 : 187,500bps (four-wire system) for the V9071iWp and V9060iTDp. ※ 6 : Wireless LAN-compatible products only.

General Specifications

Item		V9100iSp	V9100iSDp	V9080iSDp	V9100iCp	V9100iCDp	V9080iCDp	V9060iTDp
Power supply	Rated voltage	AC100~240V	DC24V	DC24V	AC100~240V	DC24V	DC24V	DC24V
	Permissible range of voltage	-15%, +10%	±10%	±10%	-15%, +10%	±10%	±10%	±10%
	Permissible momentary power failure	Within 20ms (AC100V or higher)	Within 1ms		Within 20ms (AC100V or higher)	Within 1ms		
	Power Consumption Max. rating)	70VA or less	28W or less		50VA or less	17W or less		13W or less
	Rush Current	30A or less, 3ms	17A or less, 6ms		30A or less, 3ms	17A or less, 6ms		8A or less, 7ms
Insulation resistance		DC500V 10MΩ or higher						
Physical environment	Ambient temperature	0~50℃※1						
	Ambient humidity	85%RH or less (without dew condensation)※1						
	Operation altitude	2,000m or lower						
	Atmosphere	Not to be exposed to corrosive gas, or conductive dust						
	Storage temperature	-10~60℃※1						
	Storage humidity	85%RH or less (without dew condensation)※1						
	Contamination level	Level 2						
Mechanical operating conditions	Resistance to oscillation	JIS B 3502(IEC61131-2) compliant, Vibration frequency : 5~9Hz Half-amplitude: 3.5mm, Vibration frequency: 9~150Hz, Constant acceleration: 9.8m/s² (1G), X, Y, Z 3 directions (10 times each)						
	Resistance to shock	JIS B 3502(IEC61131-2) compliant, Peak acceleration : 147m/s² (15G), X, Y, Z 3 directions, 3 times each (18 times in total)						
Electric operating conditions	Resistance to noise	Noise voltage : 1500Vp-p, Pulse width : 1μs, Pulse rise time : 1ns						Noise voltage : 1000Vp-p, Pulse width : 1μs, Pulse rise time : 1ns
	Resistance to static discharge	Complies with IEC61000-4-2, Contact : 6kV, Air : 8kV						
Installation conditions	Grounding	3 Class resistance, FG/SG separation						
	Structure	Protection structure : Front case : IP66, TYPE4X/13※7※8 (when water-proof gasket is used), Rear case : IP20, Single unit, Installation method : panel mounting						
	Cooling system	Natural air cooling						
	Dimensions W*H*D (mm)	303.8×231.0×54.0		235.0×180.0×48.9	303.8×231.0×54.0		235.0×180.0×48.9	182.5×138.8×53.0
	Panel cutout (mm)	289.0×216.2(+0.5/-0)		220.5×165.5(+0.5/-0)	289.0×216.2(+0.5/-0)		220.5×165.5(+0.5/-0)	174.0×131.0(+0.5/-0)
	Weight	Approx. 2.0kg		Approx. 1.3kg	Approx. 2.0kg		Approx. 1.3kg	Approx. 740g
Case color		Light gray						
Material		PC resin						

Performance Specifications

Item		V9100iSp	V9080iSDp	V9100iCp	V9080iCDp	V9060iTDp
Screen memory(FROM)		64MB				
Backup memory(SRAM)		800KB				
Display	Display device	TFT color LCD				
	Resolution	800×600		640×480		
	Display size	10.4 ″	8.4 ″	10.4 ″	8.4 ″	5.7 ″
	Colors	1.67 million※2				260,000※2
	Backlight	LED				
	Backlight life	70,000 hours				50,000 hours
Touch switch	Type	Analog resistance film				
Function switch	Quantity	8				6
External interface	D-Sub 9-pin(CN1)※3	RS-232C·RS-422/485 Asychronous type Data length : 7, 8 bits Parity : even, odd, none Stop bit : 1,2 bits, Baud rate : 4800, 9600, 19200, 38400, 57600, 76800, 115200, 187500※4 bps				
	Modular 8-pin (MJ1/MJ2)	RS-232C·RS-422/485(two-wire system)※5 Asychronous type, Data length : 7, 8bits Parity : even, odd, none Stop bit : 1,2 bits Baud rate: 4800, 9600, 19200, 38400, 57600, 76800, 115200bps				
	SD Card	One card slot provided as standard				
	Ethernet	1CH, Baud rate : 100Mbps, 10Mbps				
	Wireless LAN	Complies with 1EEE802.11b/g/n (2.4GHz)※6			−	
	USB	Type A, Type mini−B (Ver.2.0)				
	Sound output	1CH provided as standard			−	
Clock	Backup period	5 years (Ambient temperature 25℃)				
	Calendar accuracy	Gap ±90 sec. per month (Ambient temperature 25℃, When the battery is backed up)				
Standard	CE marking※7	EN61000−6−2, EN61000−6−4				
	UL·cUL※7	UL508, ANSI/ISA12.12.01※9		UL508		UL508, ANSI/ISA12.12.01※9
	KC	Compliant				
	Radio Act※6	Japan: TELEC			−	

※7 : DC products only. ※8 V9101iWp : Hardware of Ver.c or later, V9120iSDp/V9100iSDp/V9080iSDp/V9100iCDp/V9080iCDp : Hardware of Ver.b or later,
V9071iWp/V9150iXDp/V9060iTDp : All versions ※9 : V9120iSDp/V9100iSDp/V9080iSDp : Hardware of Ver.b or later, V9060iTDp : All versions

Advanced Model System Configuration

PC V9p Tablet PC V9p PLC Network camera

Ethernet

Screen configuration software

V-SFT Plus 6

WLAN

※1 LAN/LAN2

Printer (PictBridge)

USB mini-B Screen transfer

Screen transfer

LAN/LAN2 Screen transfer

V-CP

MJ1 Screen transfer

MJ1·MJ2 USB-A

AUDIO ※2

Speaker (Sound output)

CN1 ※3 Communication cable

SD

SD Card

32GB

PLC · PC for general use

Temperature controller / Inverter

V6-TMP

Temperature controller / Inverter

PLC

USB

V6-BCD

Barcode reader

Printer

Barcode reader

Printer

Mouse

V9p

Barcode reader

	Ethernet
	USB
	Serial communication
	Optional units

※4

Video camera (Video input)

PC (RGB input)

Display (RGB output)

Keyboard

※1 Compatible only with models with Wireless LAN I/F.
※2 V910xiWp only
※3 Optional unit DUR-00 is required when using V907xiWp series.
※4 V910xiWp series only. Optional unit "GUR-XX" is required.

Standard Model System Configuration

PC V9p PLC Network camera

Ethernet

Screen transfer

Screen configuration software

WLAN

※2 LAN

Printer (PictBridge)

USB mini-B Screen transfer

V-CP MJ1

Screen transfer

SD

32GB SD Card

AUDIO

Speaker (Sound output)

V9p

V-SFT Plus 6

Screen program editing

PC

MJ1·MJ2

CN1 Communication Cable

V6-BCD V6-TMP

USB-A

	Ethernet
	USB
	Serial Communication
	Optional Units

Barcode reader PLC Temperature controller / Inverter

Barcode reader PLC · PC for general use Temperature controller / Inverter

※1

Video camera (Video input)

PC (RGB input)

Display (RGB output)

USB

Printer Barcode reader Mouse

Keyboard

※1 The optional unit (GUR-xx) is required.
※2 Compatible only with models with Wireless LAN I/F.

Lite Model System Configuration

PC V9p PLC Network camera

Ethernet

Screen transfer

Screen configuration software

LAN

Printer (PictBridge)

USB mini-B Screen transfer

V-CP MJ1

Screen transfer

SD

32GB SD Card

V9p

V-SFT Plus 6

Screen program editing

PC

MJ1·MJ2

CN1 Communication Cable

V6-BCD V6-TMP

USB-A

	Ethernet
	USB
	Serial Communication

Barcode reader PLC Temperature controller / Inverter

Barcode reader PLC · PC for general use Temperature controller / Inverter

USB

Printer Barcode reader Mouse

Keyboard

※ The optional unit (DUR-00) is required for V9060iTDp.

Lineup Details

▌Advanced

Model	Display Size	Resolution	Touch Switch	Communication Network	Video RGB	AUDIO Output	Wireless LAN	Extended Cable LAN	UL508	CE	KC	Power	Delivery Standard:○ Made to order:△
V9101iWRLDp	10.1″ Wide	1024×600	Capacitance	○	○	○	○	○	○	○	○	DC	○
V9101iWLDp				○	○	○	−	○	○	○	○	DC	○
V9100iWRLDp			Analog resistance film	○	○	○	○	○	○	○	○	DC	△
V9100iWLDp				○	○	○	−	○	○	○	○	DC	△
V9071iWRLDp	7″ Wide	800×480	Capacitance	○	−	−	○	○	○	○	○	DC	○
V9071iWLDp				○	−	−	−	○	○	○	○	DC	○

▌Standard

Model	Display Size	Resolution	Touch Switch	Communication Network	Video RGB	AUDIO Output	Wireless LAN	Extended Cable LAN	UL508	CE	KC	Power	Delivery Standard:○ Made to order:△
V9150iXp	15″	1024×768	Analog resistance film	○	○	○	−	−	−	−	○	AC	○
V9150iXDp				○	○	○	−	−	○	○	○	DC	○
V9150iXLDp				○	○	○	−	○	○	○	○	DC	△
V9120iSp	12.1″	800×600	Analog resistance film	○	○	○	−	−	−	○	○	AC	○
V9120iSDp				○	○	○	−	−	○	○	○	DC	○
V9120iSLDp				○	○	○	−	○	○	○	○	DC	△
V9100iSp	10.4″	800×600	Analog resistance film	○	○	○	−	−	−	−	○	AC	○
V9100iSDp				○	○	○	−	−	○	○	○	DC	○
V9100iSLDp				○	○	○	−	○	○	○	○	DC	△
V9080iSDp	8.4″	800×600	Analog resistance film	○	○	○	−	−	○	○	○	DC	○

▌Lite

Model	Display Size	Resolution	Touch Switch	Communication Network	Video RGB	AUDIO Output	Wireless LAN	Extended Cable LAN	UL508	CE	KC	Power	Delivery Standard:○ Made to order:△
V9100iCp	10.4″	640×480	Analog resistance film	○	−	−	−	−	−	−	○	AC	○
V9100iCDp		640×480	Analog resistance film	○	−	−	−	−	○	○	○	DC	○
V9080iCDp	8.4″	640×480	Analog resistance film	○	−	−	−	−	○	○	○	DC	○
V9060iTDp	5.7″	640×480	Analog resistance film	○	−	−	−	−	○	○	○	DC	○

Optional Unit List

Type	Product	Compatible Model								
		Advanced		Standard				Lite		
		V9101iWp	V9071iWp	V9150iXp	V9120iSp	V9100iSp	V9080iSp	V9100iCp	V9080iCDp	V9060iTDp
Configuration Software										
V SFT Plus 6	V8p/V9p configuration software(Manual not included) Ver.6	○	○	○	○	○	○	○	○	○
Optional Units										
GUR_00	Video 4CH input	○		○	○	○	○			
GUR_01	RGB 1CH input	○		○	○	○	○			
GUR_02	RGB 1CH output	○		○	○	○	○			
GUR_04	Video 1CH input	○		○	○	○	○			
GUR_10	Video 2CH input・RGB 1CH input	○		○	○	○	○			
GUR_11	RGB 2CH input	○		○	○	○	○			
DUR_00	Optional unit for V9071iWp / V9060iTDp		○							○
Communication Units										
CUR_00	OPCN-1	○	○	○	○	○	○	○	○	○
CUR_01	T-Link	○	○	○	○	○	○	○	○	○
CUR_02	CC-Link	○	○	○	○	○	○	○	○	○
CUR_03	Ethernet	○	○	○	○	○	○	○	○	○
CUR_04	PROFIBUS-DP	○	○	○	○	○	○	○	○	○
CUR_06	SX Bus	○	○	○	○	○	○	○	○	○
CUR_07	DeviceNet	○	○	○	○	○	○	○	○	○
CUR_08	FL-net	○	○	○	○	○	○	○	○	○
CUR_09	EtherCAT	○	○	○	○	○	○	○	○	○
Cables										
V_CP	Screem transfer cable (3M)	○	○	○	○	○	○	○	○	○
UA_FR	USB-A cable (1M)	○	○	○	○	○	○	○	○	○
V6_MLT	Multi-link 2 master cable (3M)	○	○	○	○	○	○	○	○	○
V6_TMP	Temperature controller cable (3M)	○	○	○	○	○	○	○	○	○
V6_TMP_5M	Temperature controller cable (5M)	○	○	○	○	○	○	○	○	○
V6_TMP_10M	Temperature controller cable (10M)	○	○	○	○	○	○	○	○	○
V6_BCD	Bar code reader cable (3M)	○	○	○	○	○	○	○	○	○
D9_MB_CPUQ_2M	MITSUBISHI ELECTRIC A series/QnA series CPU(Dsub25) RS_422	○	△※	○	○	○	○	○	○	△※
D9_MB_CPUQ_3M		○	△※	○	○	○	○	○	○	△※
D9_MB_CPUQ_5M		○	△※	○	○	○	○	○	○	△※
D9_MB_CPUQ_10M		○	△※	○	○	○	○	○	○	△※
D9_MB_CPUQ_15M		○	△※	○	○	○	○	○	○	△※
D9_QCPU2_2M	MITSUBISHI ELECTRIC Q series CPU(Mini DIN6) RS_232C	○	△※	○	○	○	○	○	○	△※
D9_QCPU2_3M		○	△※	○	○	○	○	○	○	△※
D9_QCPU2_5M		○	△※	○	○	○	○	○	○	△※
D9_QCPU2_10M		○	△※	○	○	○	○	○	○	△※
D9_QCPU2_15M		○	△※	○	○	○	○	○	○	△※
D9_MI2_09_2M	MITSUBISHI ELECTRIC Link unit(Dsub9) RS_232C	○	△※	○	○	○	○	○	○	△※
D9_MI2_09_3M		○	△※	○	○	○	○	○	○	△※
D9_MI2_09_5M		○	△※	○	○	○	○	○	○	△※
D9_MI2_09_10M		○	△※	○	○	○	○	○	○	△※
D9_MI2_09_15M		○	△※	○	○	○	○	○	○	△※
D9_MI4_FX_2M	MITSUBISHI ELECTRIC FX series CPU(Mini DIN8) RS_422	○	△※	○	○	○	○	○	○	△※
D9_MI4_FX_3M		○	△※	○	○	○	○	○	○	△※
D9_MI4_FX_5M		○	△※	○	○	○	○	○	○	△※
D9_MI4_FX_10M		○	△※	○	○	○	○	○	○	△※
D9_MI4_FX_15M		○	△※	○	○	○	○	○	○	△※
D9_FU_SPHCPU_2M	FUJI ELECTRIC SPH CPU RS_485 (4-wire)	○	△※	○	○	○	○	○	○	△※
D9_FU_SPHCPU_3M		○	△※	○	○	○	○	○	○	△※
D9_FU_SPHCPU_5M		○	△※	○	○	○	○	○	○	△※
D9_FU_SPBCPU_2M	FUJI ELECTRIC SPB CPU RS_485 (4-wire)	○	△※	○	○	○	○	○	○	△※
D9_FU_SPBCPU_3M		○	△※	○	○	○	○	○	○	△※
D9_FU_SPBCPU_5M		○	△※	○	○	○	○	○	○	△※
D9_D25	Dsub9_Dsub25 conversion cable (0.3M)	○	△※	○	○	○	○	○	○	△※
MJ2_PLC	MJ2_Dsub25 conversion cable		○							
Communication Terminal Block										
TC_D9	V9p/V8p terminal converter	○	△※	○	○	○	○	○	○	△※
Battery										
V9_BT	Replacement battery for V9p	○		○	○	○	○	○	○	
V7_BT	Replacement lithuim battery for V9071iWp / V9060iTDp		○							○
Wireless LAN Antenna										
V9_ANT	V9p external antenna cable (3m)	○	○							
Protection Sheets										
V715_GS	V9150iXp/V815p/V715p protection sheets			○						
V715_GSN10	V9150iXp/V815p/V715p protection sheets (Non-glare)			○						
V912S_GS	V9120iSp protection sheets				○					
V912S_GSN10	V9120iSp protection sheets (Non-glare)				○					
V910S_GS	V9100iSp/V9100iCp protection sheets					○		○		
V910S_GSN10	V9100iSp/V9100iCp protection sheets (Non-glare)					○		○		
V908S_GS	V9080iSp/V9080iCp protection sheets						○		○	
V908S_GSN10	V9080iSp/V9080iCp protection sheets (Non-glare)						○		○	
V906T_GS	V9060iTDp protection sheets									○
V906T_GSN10	V9060iTDp protection sheets (Non-glare)									○

※ Optional unit DUR−00 is required.

PLC Communication Driver List

Table 1 (left)

Manufacturer	Models	1:1	1:n Multi-drop	n:1 Multi-link2	n:1 Multi-link	V9p	V8ip	V8p
RS Automation	NX7/NX Plus series (70P/700P/CCU+)	✓	✓	✓		✓	✓	✓
	N7/NX series (70/700/750/CCU)	✓	✓	✓		✓	✓	✓[2]
	NX700 series (Ethernet)	✓	✓			✓	✓	✓[2]
	X8 series	✓	✓	✓		✓	✓	✓
	X8 series (Ethernet)	✓	✓			✓	✓	✓[2]
Allen-Bradley	PLC-5	✓	✓	✓	✓	✓	✓	✓
	PLC-5 (Ethernet)	✓	✓			✓	✓	
	ControlLogix / CompactLogix	✓	✓	✓		✓	✓	✓
	ControlLogix (Ethernet)	✓	✓			✓	✓	
	SLC500	✓	✓	✓		✓	✓	✓
	SLC500 (Ethernet TCP/IP)	✓	✓			✓	✓	
	NET-ENI (SLC500 Ethernet TCP/IP)	✓	✓			✓	✓	
	NET-ENI (MicroLogix Ethernet TCP/IP)	✓	✓			✓	✓	
	MicroLogix	✓	✓	✓		✓	✓	✓
	MicroLogix (Ethernet TCP/IP)	✓	✓			✓	✓	
	Micro800 Controllers	✓	✓		✓	✓	✓	✓
	Micro800 Controllers (Ethernet TCP/IP)	✓	✓			✓	✓	
Automationdirect	Direct LOGIC (K-Sequence)	✓	✓	✓		✓	✓	✓
	Direct LOGIC (Ethernet UDP/IP)	✓	✓			✓	✓	✓[2]
	Direct LOGIC (MODBUS RTU)	✓	✓	✓		✓	✓	✓
Azbil	MX series	✓	✓	✓		✓	✓	✓
Baumuller	BMx-x-PLC	✓	✓	✓		✓	✓	✓[2]
BECKHOFF	ADS protocol (Ethernet)	✓	✓			✓	✓	✓[2]
CIMON	BP series	✓		✓		✓	✓	✓
	CP series	✓		✓		✓	✓	✓
	S series	✓	✓	✓		✓	✓	✓
	S series (Ethernet)	✓	✓			✓	✓	✓[2]
DELTA	DVP series	✓	✓	✓		✓	✓	✓
	DVP series (MODBUS ASCII)	✓	✓	✓		✓	✓	✓
	DVP series (MODBUS TCP/IP)	✓	✓			✓	✓	✓
EATON Cutler-Hammer	ELC	✓	✓	✓		✓	✓	✓
EMERSON	EC10/20/20H (MODBUS RTU)	✓	✓	✓		✓	✓	✓
FANUC	Power Mate	✓		✓		✓	✓	✓
Fatek Automation	FACON FB series	✓	✓	✓		✓	✓	✓
FUFENG	APC series Controller	✓	✓			✓	✓	✓
Fuji Electric	MICREX-F series	✓	✓	✓	✓	✓	✓	✓
	MICREX-F series V4-compatible	✓	✓	✓		✓	✓	✓
	MICREX-F T-Link					✓[1]	✓[1]	✓[1]
	MICREX-F T-Link V4-compatible					✓[1]	✓[1]	✓[1]
	SPB (N mode) & FLEX-PC series	✓	✓	✓		✓	✓	✓
	SPB (N mode) & FLEX-PC CPU	✓		✓		✓	✓	✓[2]
	MICREX-SX (T-Link)					✓[1]	✓[1]	✓[1]
	MICREX-SX (OPCN-1)					✓[1]	✓[1]	✓[1]
	MICREX-SX (SX bus)					✓[1]	✓[1]	✓[1]
	MICREX-SX SPH/SPB/SPM/SPE series	✓		✓		✓	✓	✓
	MICREX-SX SPH/SPB/SPM/SPE CPU	✓		✓		✓	✓	✓
	MICREX-SX (Ethernet)	✓	✓			✓	✓	✓
GE Fanuc	90 series	✓	✓	✓		✓	✓	✓
	90 series (SNP-X)	✓	✓			✓	✓	✓
	90 series (SNP)	✓	✓	✓		✓	✓	✓
	90 series(Ethernet TCP/IP)	✓	✓			✓	✓	✓[2]
	RX3i (Ethernet TCP/IP)	✓	✓			✓	✓	✓
Hitachi	HIDIC-S10/2a,S10mini	✓		✓		✓	✓	✓
	HIDIC-S10/2a,S10mini (Ethernet)	✓	✓			✓	✓	✓[2]
	HIDIC-S10/4a	✓		✓		✓	✓	✓
	HIDIC-S10V	✓		✓		✓	✓	✓
	HIDIC-S10V (Ethernet)	✓	✓			✓	✓	✓[2]
Hitachi Industrial Equipment Systems	HIDIC-H	✓	✓	✓	✓	✓[5]	✓[5]	✓[5]
	HIDIC-H (Ethernet)	✓	✓			✓	✓	✓[2]
	HIDIC-EHV	✓	✓	✓	✓	✓	✓	✓
	HIDIC-EHV (Ethernet)	✓	✓			✓	✓	✓[2]
HYUNDAI	Hi5 Robot (MODBUS RTU)	✓	✓	✓		✓	✓	✓
	Hi4 Robot (MODBUS RTU)	✓	✓	✓		✓	✓	✓
IDEC	MICRO 3	✓	✓	✓		✓	✓	✓
	MICRO Smart	✓	✓	✓		✓	✓	✓
	MICRO Smart pentra	✓	✓	✓		✓	✓	✓
Jetter	JetControl series2/3 (Ethernet UDP/IP)	✓	✓			✓	✓	✓[2]
JTEKT	TOYOPUC	✓	✓	✓	✓	✓	✓	✓
	TOYOPUC (Ethernet)	✓	✓			✓	✓	✓[2]
	TOYOPUC (Ethernet PC10 mode)	✓	✓			✓	✓	✓[2]
	TOYOPUC-Plus	✓	✓	✓		✓	✓	✓
	TOYOPUC-Plus (Ethernet)	✓	✓			✓	✓	✓
KEYENCE	KZ series Link	✓	✓	✓	✓	✓	✓	✓
	KZ series	✓		✓		✓	✓	✓
	KZ-A500 CPU	✓		✓		✓	✓	✓
	KZ/KV series CPU	✓		✓		✓	✓	✓
	KZ24/300 CPU	✓		✓		✓	✓	✓
	KV10/24 CPU	✓		✓		✓	✓	✓
	KV-700	✓		✓		✓	✓	✓
	KV-700 (Ethernet TCP/IP)	✓	✓			✓	✓	
	KV-1000	✓		✓		✓	✓	✓
	KV-1000 (Ethernet TCP/IP)	✓	✓			✓	✓	
	KV-3000/5000	✓		✓		✓	✓	✓
	KV-3000/5000 (Ethernet TCP/IP)	✓	✓			✓	✓	
	KV-7000 (Ethernet TCP/IP)	✓	✓			✓	✓	
KOYO ELECTRONICS	SU/SG	✓	✓	✓		✓	✓	✓
	SR-T (K protocol)	✓		✓		✓	✓	✓
	SU/SG (K-Sequence)	✓		✓		✓	✓	✓
	SU/SG (MODBUS RTU)	✓	✓	✓		✓	✓	✓
LS	MASTER-KxxxS	✓		✓		✓	✓	✓
	MASTER-KxxxS CNET	✓	✓	✓		✓	✓	✓
	MASTER-K series(Ethernet)	✓	✓			✓	✓	✓[2]
	GLOFA CNET	✓	✓	✓	✓	✓	✓	✓[2]
	GLOFA GM7 CNET	✓	✓	✓		✓	✓	✓[2]
	GLOFA GM series CPU	✓		✓		✓	✓	✓
	XGT/XGK series CNET	✓	✓	✓		✓	✓	✓
	XGT/XGK series CPU	✓		✓		✓	✓	✓
	XGT/XGK series (Ethernet)	✓	✓			✓	✓	✓[3]
	XGT/XGI series CNET	✓	✓	✓		✓	✓	✓
	XGT/XGI series CPU	✓		✓		✓	✓	✓
	XGT/XGI series (Ethernet)	✓	✓			✓	✓	✓[2]
MITSUBISHI ELECTRIC	A series link	✓	✓	✓	✓	✓	✓	✓
	A series CPU	✓		✓		✓	✓	✓
	A series (OPCN-1)					✓[1]	✓[1]	✓[1]
	QnA series link	✓	✓	✓		✓	✓	✓
	QnA series CPU	✓		✓		✓	✓	✓
	QnA series (Ethernet)	✓	✓			✓	✓	✓[2]
	QnH (Q) series link	✓	✓	✓		✓	✓	✓
	QnH (Q) series CPU	✓		✓		✓	✓	✓
	QnU series CPU	✓		✓		✓	✓	✓
	Q00J/00/01 CPU	✓		✓		✓	✓	✓
	QnH (Q) series (Ethernet)	✓	✓			✓	✓	✓[2]
	QnH (Q) series link (multi CPU)	✓	✓	✓		✓	✓	✓
	QnH (Q) series (multi CPU) (Ethernet)	✓	✓			✓	✓	✓[2]
	QnH (Q) series CPU (multi CPU)	✓		✓		✓	✓	✓

Table 2 (right)

Manufacturer	Models	1:1	1:n Multi-drop	n:1 Multi-link2	n:1 Multi-link	V9p	V8ip	V8p
MITSUBISHI ELECTRIC	QnH (Q) series (Ethernet ASCII)	✓	✓			✓	✓	✓[2]
	QnH (Q) series (multi CPU) (Ethernet ASCII)	✓	✓			✓	✓	✓[2]
	QnU series (built-in Ethernet)	✓	✓			✓	✓	✓[2]
	L series link	✓	✓	✓		✓	✓	✓
	L series (built-in Ethernet)	✓	✓			✓	✓	✓[2]
	L series CPU	✓		✓		✓	✓	✓
	A series (CC-LINK)					✓[1]	✓[1]	✓[1]
	QnA series (CC-LINK)					✓[1]	✓[1]	✓[1]
	QnH (Q) series (CC-LINK)					✓[1]	✓[1]	✓[1]
	FX series CPU	✓		✓		✓[3]	✓[4]	✓[4]
	FX2N/1N series CPU	✓		✓		✓	✓	✓
	FX1S series CPU	✓		✓		✓	✓	✓
	FX series link (A protocol)	✓	✓	✓		✓	✓	✓
	FX-3U/3UC/3G series CPU	✓		✓		✓	✓	✓
	FX-3U/3GE series (Ethernet)	✓	✓			✓	✓	✓
	FX-3U/3UC/3UG series link (A protocol)	✓	✓	✓		✓	✓	✓
	FX-5U/5UC series	✓		✓		✓	✓	✓
	FX-5U/5UC series (Ethernet)	✓	✓			✓	✓	✓
	A-link + Net10	✓		✓		✓	✓	✓
	Q170MCPU (multi CPU)	✓		✓		✓	✓	✓
	Q170 series (multi CPU) (Ethernet)	✓	✓			✓	✓	✓
	iQ-R series(Built-in Ethernet)	✓	✓			✓	✓	✓
	iQ-R series link	✓	✓	✓		✓	✓	✓
	iQ-R series (Ethernet)	✓	✓			✓	✓	✓
MODICON	MODBUS RTU	✓	✓	✓		✓	✓	✓
MOELLER	PS4	✓	✓	✓		✓	✓	✓
OMRON	SYSMAC C	✓	✓	✓		✓	✓	✓
	SYSMAC C (OPCN-1)					✓[1]	✓[1]	✓[1]
	SYSMAC CV	✓	✓	✓		✓	✓	✓
	SYSMAC CS1/CJ1	✓	✓	✓		✓	✓	✓
	SYSMAC CS1/CJ1 DNA	✓	✓			✓	✓	✓
	SYSMAC CS1/CJ1 (Ethernet)	✓	✓			✓	✓	✓
	SYSMAC CS1/CJ1 (Ethernet Auto)	✓	✓			✓	✓	✓
	SYSMAC CS1/CJ1 DNA (Ethernet)	✓	✓			✓	✓	✓[2]
	NJ Series (EtherNet/IP)	✓	✓			✓	✓	✓
Panasonic	FP series (RS232C/422)	✓	✓	✓		✓	✓	✓
	FP series (TCP/IP)	✓	✓			✓	✓	✓
	FP series (UDP/IP)	✓	✓			✓	✓	✓
	FP-X (TCP/IP)	✓	✓			✓	✓	✓
	FP7 series (RS232C/422)	✓	✓	✓		✓	✓	✓
	FP7 series (Ethernet)	✓	✓			✓	✓	✓
SAIA	PCD	✓	✓	✓		✓	✓	✓
	PCD S-BUS (Ethernet)	✓	✓			✓	✓	✓[2]
SAMSUNG	SPC series	✓	✓	✓		✓	✓	✓
	N_plus	✓	✓	✓		✓	✓	✓
	SECNET	✓	✓	✓		✓	✓	✓
SHARP	JW series	✓	✓	✓		✓	✓	✓
	JW100/70H COM port	✓	✓	✓		✓	✓	✓
	JW20 COM port	✓	✓	✓		✓	✓	✓
	JW series (Ethernet)	✓	✓			✓	✓	✓
	JW300 series	✓	✓	✓		✓	✓	✓
	JW311/312/321/322 series (Ethernet)	✓	✓			✓	✓	✓
	JW331/332/341/342/352/362 series (Ethernet)	✓	✓			✓	✓	✓
Siemens	S5 PG port	✓		✓		✓	✓	✓
	S7	✓		✓		✓	✓	✓
	S7-200 PPI	✓	✓			✓	✓	✓
	S7-200 (Ethernet ISOTCP)	✓	✓			✓	✓	✓
	S7-300/400 MPI	✓	✓			✓	✓	✓
	S7-300/400 (Ethernet ISOTCP)	✓	✓			✓	✓	✓
	S7-300/400 (Ethernet TCP/IP protocol)	✓	✓			✓	✓	✓
	S7-1200/1500 (Ethernet ISOTCP)	✓	✓			✓	✓	✓
	S7 PROFIBUS-DP					✓[1]	✓[1]	✓[1]
	TI500/505	✓	✓	✓		✓	✓	✓
SINFONIA TECHNOLOGY	SELMART	✓	✓	✓		✓	✓	✓
TECO	TP-03 (MODBUS RTU)	✓	✓	✓		✓	✓	✓
Telemecanique	TSX Micro	✓		✓		✓	✓	✓
TOSHIBA	T series /V series (T compatible)	✓	✓	✓		✓	✓	✓
	T series /V series (T compatible) (Ethernet UDP/IP)	✓	✓			✓	✓	✓
	EX series	✓		✓		✓	✓	✓
	nv series(Ethernet UDP/IP)	✓	✓			✓	✓	✓
TOSHIBA MACHINE	TC200	✓	✓	✓		✓	✓	✓
TOYO DENKI SEIZO	μGPCsx (OPCN-1)					✓[1]	✓[1]	✓[1]
	μGPCsx (SX bus)					✓[1]	✓[1]	✓[1]
	μGPCsx series	✓		✓		✓	✓	✓
	μGPCsx CPU	✓		✓		✓	✓	✓
	μGPCsx (Ethernet)	✓	✓			✓	✓	✓
Turck	BL series Distributed I/O (MODBUS TCP/IP)	✓	✓			✓	✓	✓
Ultra Instruments	UIC CPU (MODBUS ASCII)	✓	✓	✓		✓	✓	✓
UNITRONICS	M90/M91/Vision series (ASCII)	✓	✓	✓		✓	✓	✓
	Vision series (ASCII Ethernet TCP/IP)	✓	✓			✓	✓	✓
VIGOR	M series	✓	✓	✓		✓	✓	✓
WAGO	750 series (MODBUS RTU)	✓	✓	✓		✓	✓	✓
	750 series (MODBUS Etheret)	✓	✓			✓	✓	✓
XINJE	XC series (MODBUS RTU)	✓	✓	✓		✓	✓	✓
Yaskawa Electric	Memobus	✓	✓	✓		✓	✓	✓
	CP9200SH/MP900	✓	✓	✓		✓	✓	✓
	MP2000 series	✓	✓	✓		✓	✓	✓
	MP2300 (MODBUS TCP/IP)	✓	✓			✓	✓	✓
	CP MP expansion memobus (UDP/IP)	✓	✓			✓	✓	✓
	MP2000 series (UDP/IP)	✓	✓			✓	✓	✓
	MP3000 series	✓	✓	✓		✓	✓	✓
	MP3000 series (Ethernet UDP/IP)	✓	✓			✓	✓	✓
	MP3000 series expansion memobus (Ethernet)	✓	✓			✓	✓	✓
Yokogawa Electric	FA-M3	✓	✓	✓		✓	✓	✓
	FA-M3R	✓	✓	✓		✓	✓	✓
	FA-M3/FA-M3R (Ethernet UDP/IP)	✓	✓			✓	✓	✓
	FA-M3/FA-M3R (Ethernet UDP/IP ASCII)	✓	✓			✓	✓	✓
	FA-M3/FA-M3R (Ethernet TCP/IP)	✓	✓			✓	✓	✓
	FA-M3/FA-M3R (Ethernet TCP/IP ASCII)	✓	✓			✓	✓	✓
	FA-M3V	✓		✓		✓	✓	✓
	FA-M3V (Ethernet)	✓	✓			✓	✓	✓
	FA-M3V(Ethernet ASCII)	✓	✓			✓	✓	✓
None	Universal serial	✓	✓			✓	✓	✓
	FL-Net					✓[1]	✓[1]	✓[1]
	PROFIBUS-DP					✓[1]	✓[1]	✓[1]
	DeviceNet					✓[1]	✓[1]	✓[1]
	Without PLC Connection	✓				✓	✓	✓
	MODBUS RTU	✓	✓	✓		✓	✓	✓
	MODBUS RTU EXT Format	✓	✓	✓		✓	✓	✓
	MODBUS TCP/IP (Ethernet)	✓	✓			✓	✓	✓
	MODBUS TCP/IP (Ethernet) Sub Station	✓	✓			✓	✓	✓
	MODBUS TCP/IP (Ethernet) EXT Format	✓	✓			✓	✓	✓
	MODBUS ASCII	✓	✓	✓		✓	✓	✓

*1 For V9+, a communication unit "CUR-xx" is required. For V8p, a communication unit "CU(N)-xx" is required. *2 A communication unit "CU(N)-03-x" is required. It does not support TCP/IP connection.
*3 For V907xW+, V906+, an optional unit "DUR-00" is required.

*4 For V806p, an optional unit "DU(N)-10" is required. *5 An optional unit "DUR-00" is required when connecting V907xWp, V906p using RS-232C.
*6 An optional unit "DU(N)-10" is required when connecting V806p using RS-232C.

Temperature/Servo/Inverter Communication Driver List

Manufacturer	Models	1:1	1:n Multi-drop	V9p	V8ip	V8p
RS Automation	CSD5 (MODBUS RTU)	✓	✓	✓	✓	✓
	Moscon-F50 (MODBUS RTU)	✓	✓	✓	✓	✓
Agilent	4263 series	✓		✓	✓	✓
ASAHI ENGINEERING	Stepping Motor	✓			✓	✓
Azbil	SDC10	✓	✓	✓	✓	✓
	SDC15	✓	✓	✓	✓	✓
	SDC20	✓	✓	✓	✓	✓
	SDC21	✓	✓	✓	✓	✓
	SDC25/26	✓	✓	✓	✓	✓
	SDC30/31	✓	✓	✓	✓	✓
	SDC35/36	✓	✓	✓	✓	✓
	SDC45/46	✓	✓	✓	✓	✓
	SDC40A	✓	✓	✓	✓	✓
	SDC40G	✓	✓	✓	✓	✓
	DMC10	✓	✓	✓	✓	✓
	DMC50 (COM)	✓	✓	✓	✓	✓
	AHC2001	✓	✓	✓	✓	✓
	AHC2001+DCP31/32	✓	✓	✓	✓	✓
	DCP31/32	✓	✓	✓	✓	✓
	NX (CPL)	✓	✓	✓	✓	✓
	NX (MODBUS RTU)	✓	✓	✓	✓	✓
	NX (MODBUS TCP/IP)	✓	✓	✓	✓	
A&D	AD4402 (MODBUS RTU)	✓	✓	✓	✓	✓
	AD4404 (MODBUS RTU)	✓	✓	✓	✓	✓
Banner	Presence PLUS (Ethernet/IP (TCP/IP))	✓	✓	✓	✓	
Bosh Rexroth	Indra Drive			✓	✓	✓
CHINO	LT400 series (MODBUS RTU)	✓	✓	✓	✓	✓
	DP1000	✓	✓	✓	✓	✓
	DB1000B (MODBUS RTU)	✓	✓	✓	✓	✓
	KR2000 (MODBUS RTU)	✓	✓	✓	✓	✓
	LT230 (MODBUS RTU)	✓	✓	✓	✓	✓
	LT300 (MODBUS RTU)	✓	✓	✓	✓	✓
	LT830 (MODBUS RTU)	✓	✓	✓	✓	✓
DELTA TAU DATA SYSTEMS	PMAC	✓		✓	✓	✓
	PMAC (Ethernet TCP/IP)	✓	✓	✓	✓	
Fuji Electric	PYX (MODBUS RTU)	✓	✓	✓	✓	✓
	PXR (MODBUS RTU)	✓	✓	✓	✓	✓
	PXF (MODBUS RTU)	✓	✓	✓	✓	✓
	PXG (MODBUS RTU)	✓	✓	✓	✓	✓
	PXH (MODBUS RTU)	✓	✓	✓	✓	✓
	PUM (MODBUS RTU)	✓	✓	✓	✓	✓
	F-MPC04P (loader)	✓	✓	✓	✓	✓
	F-MPC series/FePSU	✓	✓	✓	✓	✓
	FVR-E11S	✓	✓	✓	✓	✓
	FVR-E11S (MODBUS RTU)	✓	✓	✓	✓	✓
	FVR-C11S (MODBUS RTU)	✓	✓	✓	✓	✓
	FRENIC5000 G11S/P11S	✓	✓	✓	✓	✓
	FRENIC5000 G11S/P11S (MODBUS RTU)	✓	✓	✓	✓	✓
	FRENIC5000 VG7S (MODBUS RTU)	✓	✓	✓	✓	✓
	FRENIC-Ace (MODBUS RTU)	✓	✓	✓	✓	✓
	FRENIC-HVAC/AQUA (MODBUS RTU)	✓	✓	✓	✓	✓
	FRENIC-Mini (MODBUS RTU)	✓	✓	✓	✓	✓
	FRENIC-Eco (MODBUS RTU)	✓	✓	✓	✓	✓
	FRENIC-Multi (MODBUS RTU)	✓	✓	✓	✓	✓
	FRENIC-MEGA (MODBUS RTU)	✓	✓	✓	✓	✓
	FRENIC-MEGA SERVO (MODBUS RTU)	✓	✓	✓	✓	✓
	FRENIC-VG1 (MODBUS RTU)	✓	✓	✓	✓	✓
	FRENIC series (loader)	✓	✓	✓	✓	✓
	HFR-C9K	✓	✓	✓	✓	✓
	HFR-C11K	✓	✓	✓	✓	✓
	HFR-K1K	✓	✓	✓	✓	✓
	PPMC (MODBUS RTU)	✓	✓	✓	✓	✓
	FALDIC-α series	✓	✓	✓	✓	✓
	FALDIC-W series	✓	✓	✓	✓	✓
	PH series	✓	✓	✓	✓	✓
	PHR (MODBUS RTU)	✓	✓	✓	✓	✓
	WA5000	✓	✓	✓	✓	✓
	APR-N (MODBUS RTU)	✓	✓	✓	✓	✓
	ALPHA5 (MODBUS RTU)	✓	✓	✓	✓	✓
	ALPHA5 Smart (MODBUS RTU)	✓	✓	✓	✓	✓
	WE1MA (Ver. A)(MODBUS RTU)	✓	✓	✓	✓	✓
	WE1MA (Ver. B)(MODBUS RTU)	✓	✓	✓	✓	✓
	WSZ series	✓	✓	✓	✓	
	WSZ series (Ethernet)	✓	✓	✓	✓	
Gammaflux	TTC2100	✓	✓	✓	✓	✓
Hitachi Industrial Equipment Systems	SJ300 series	✓	✓	✓	✓	✓
	SJ700 series	✓	✓	✓	✓	✓
IAI	X-SEL controller	✓	✓	✓	✓	✓
	ROBO CYLINDER (RCP2/ERC)	✓	✓	✓	✓	✓
	ROBO CYLINDER (RCS/E-CON)	✓	✓	✓	✓	✓
	PCON/ACON/SCON (MODBUS RTU)	✓	✓	✓	✓	✓
KOGANEI	IBFL-TC	✓	✓	✓	✓	✓
Lenze	Servo Drive 9400 (Ethernet TCP/IP)	✓		✓	✓	
MITSUBISHI ELECTRIC	FR-*500	✓	✓	✓	✓	✓
	FR-V500	✓	✓	✓	✓	✓
	MR-J2S-*A	✓	✓	✓	✓	✓
	MR-J3-*A	✓	✓	✓	✓	✓
	MR-J3-*T		✓			✓

Manufacturer	Models	1:1	1:n Multi-drop	V9p	V8ip	V8p
MITSUBISHI ELECTRIC	FR-E700	✓	✓	✓	✓	✓
MOOG	J124-04x series	✓	✓	✓	✓	✓
M-SYSTEM	R1M series (MODBUS RTU)	✓	✓	✓	✓	✓
OMRON	E5AK	✓	✓	✓	✓	✓
	E5AK-T	✓	✓	✓	✓	✓
	E5AN/E5EN/E5CN/E5GN	✓	✓	✓	✓	✓
	E5AR/E5ER	✓	✓	✓	✓	✓
	E5CK	✓	✓	✓	✓	✓
	E5CK-T	✓	✓	✓	✓	✓
	E5CN-HT	✓	✓	✓	✓	✓
	E5EK	✓	✓	✓	✓	✓
	E5ZD	✓	✓	✓	✓	✓
	E5ZE	✓	✓	✓	✓	✓
	E5ZN	✓	✓	✓	✓	✓
	V600/620/680	✓	✓	✓	✓	✓
	KM20	✓	✓	✓	✓	✓
	KM100	✓	✓	✓	✓	✓
	V680S (Ethernet TCP/IP)	✓	✓	✓	✓	
Oriental Motor	High-efficiency AR series (MODBUS RTU)	✓	✓	✓	✓	✓
	CRK series (MODBUS RTU)	✓	✓	✓	✓	✓
	LP-400	✓		✓	✓	✓
Panasonic	KW series	✓	✓	✓	✓	✓
	MINAS A4 series	✓	✓	✓	✓	✓
RKC	SR-Mini (MODBUS RTU)	✓	✓	✓	✓	✓
	CB100/CB400/CB500/CB700/CB900 (MODBUS RTU)	✓	✓	✓	✓	✓
	SR-Mini (Standard Protocol)	✓	✓	✓	✓	✓
	REX-F400/F700/F900 (Standard Protocol)	✓	✓	✓	✓	✓
	REX-F9000 (Standard Protocol)	✓	✓	✓	✓	✓
	SRV (MODBUS RTU)	✓	✓	✓	✓	✓
	MA900/MA901 (MODBUS RTU)	✓	✓	✓	✓	✓
	SRZ (MODBUS RTU)	✓	✓	✓	✓	✓
	FB100/FB400/FB900 (MODBUS RTU)	✓	✓	✓	✓	✓
SANMEI	Cuty Axis	✓	✓	✓	✓	✓
SanRex	DC AUTO (HKD type)	✓		✓	✓	✓
SHARP	DS-30D	✓	✓	✓	✓	✓
	DS-32D	✓	✓	✓	✓	✓
SHIMADEN	SHIMADEN standard protocol	✓	✓	✓	✓	✓
SHINKO TECHNOS	C series	✓	✓	✓	✓	✓
	FC series	✓	✓	✓	✓	✓
	GC series	✓	✓	✓	✓	✓
	DCL-33A	✓	✓	✓	✓	✓
	JCx-300 series	✓	✓	✓	✓	✓
	PC-900	✓	✓	✓	✓	✓
	PCD-33A	✓	✓	✓	✓	✓
	ACS-13A	✓	✓	✓	✓	✓
	ACD/ACR series	✓	✓	✓	✓	✓
	WCL-13A	✓	✓	✓	✓	✓
Siemens	S120 (Ethernet ISOTCP)	✓	✓	✓	✓	
SUS	XA-A*	✓		✓	✓	✓
TOHO	TTM-000	✓	✓	✓	✓	✓
	TTM-00BT	✓	✓	✓	✓	✓
	TTM-200 (MODBUS RTU)	✓	✓	✓	✓	✓
Tokyo Chokoku Marking Products	MB3315/1010	✓		✓	✓	✓
TOSHIBA	VF-S7	✓	✓	✓	✓	✓
	VF-S9	✓	✓	✓	✓	✓
	VF-S11	✓	✓	✓	✓	✓
	VF-S15	✓	✓	✓	✓	✓
	VF-A7	✓	✓	✓	✓	✓
	VF-AS1	✓	✓	✓	✓	✓
	VF-P7	✓	✓	✓	✓	✓
	VF-PS1	✓	✓	✓	✓	✓
	VF-FS1	✓	✓	✓	✓	✓
	VF-MB1	✓	✓	✓	✓	✓
	VF-nC1	✓	✓	✓	✓	✓
	VF-nC3	✓	✓	✓	✓	✓
TOSHIBA MACHINE	VELCONIC series	✓	✓	✓	✓	✓
ULVAC	G-TRAN series	✓	✓	✓	✓	✓
UNIPULSE	F340A	✓	✓	✓	✓	✓
	F371	✓	✓	✓	✓	✓
	F800	✓	✓	✓	✓	✓
	F805A	✓	✓	✓	✓	✓
	F720A	✓	✓	✓	✓	✓
YAMAHA	RCX142	✓		✓	✓	✓
Yokogawa Electric	UT100	✓	✓	✓	✓	✓
	UT750	✓	✓	✓	✓	✓
	UT550	✓	✓	✓	✓	✓
	UT520	✓	✓	✓	✓	✓
	UT350	✓	✓	✓	✓	✓
	UT320	✓	✓	✓	✓	✓
	UT2400/2800	✓	✓	✓	✓	✓
	UT450	✓	✓	✓	✓	✓
	UT32A/35A (MODBUS RTU)	✓	✓	✓	✓	✓
	UT52A/55A (MODBUS RTU)	✓	✓	✓	✓	✓
	UT75A (MODBUS RTU)	✓	✓	✓	✓	✓
	μR10000/20000 (Ethernet TCP/IP)	✓	✓	✓	✓	
None	MODBUS RTU	✓	✓	✓	✓	✓
	MODBUS TCP/IP (Ethernet)	✓	✓	✓	✓	