

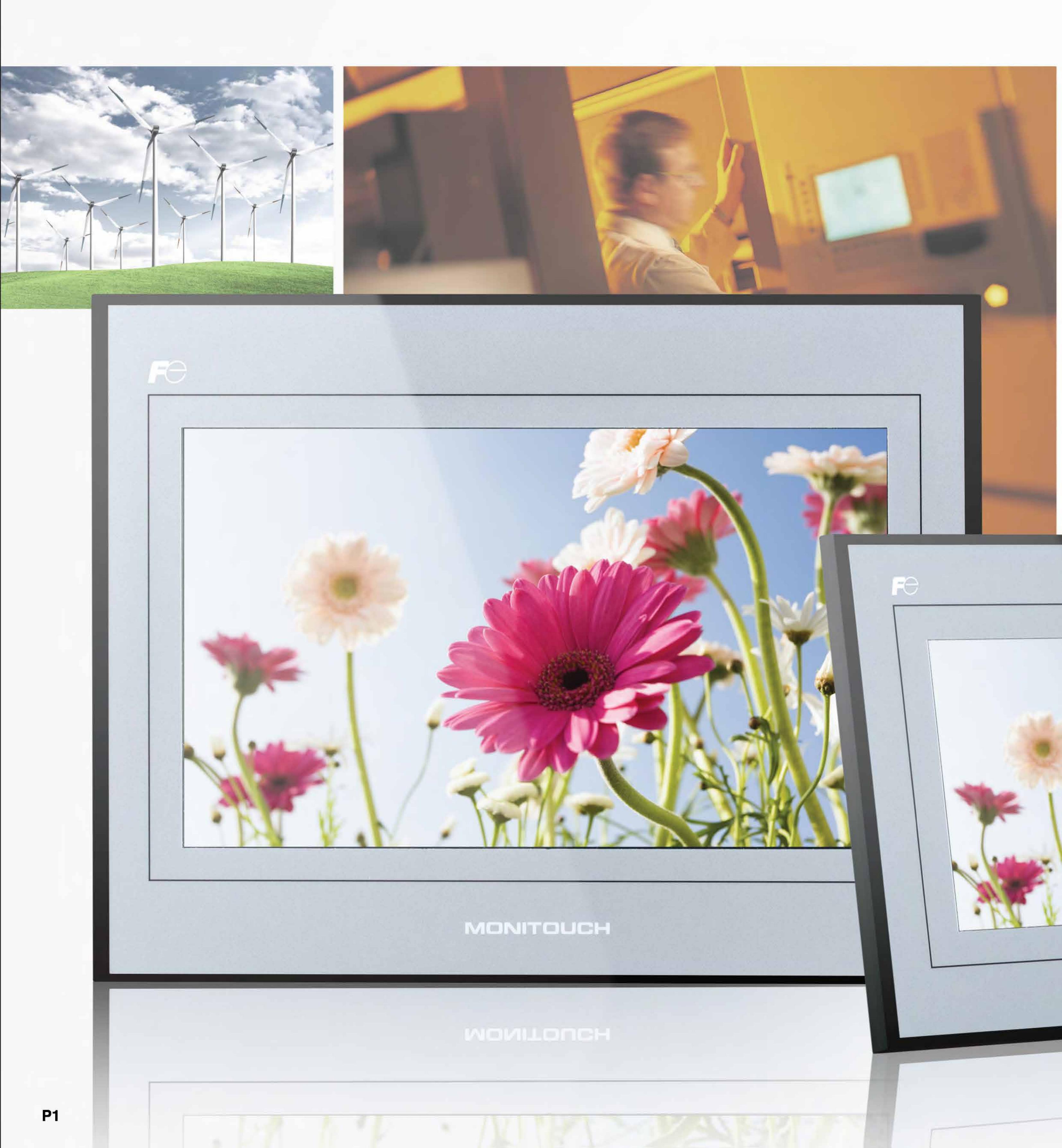
Programmable Display

TECHNOSHOT



MONITOUCH

TECHNISHOT

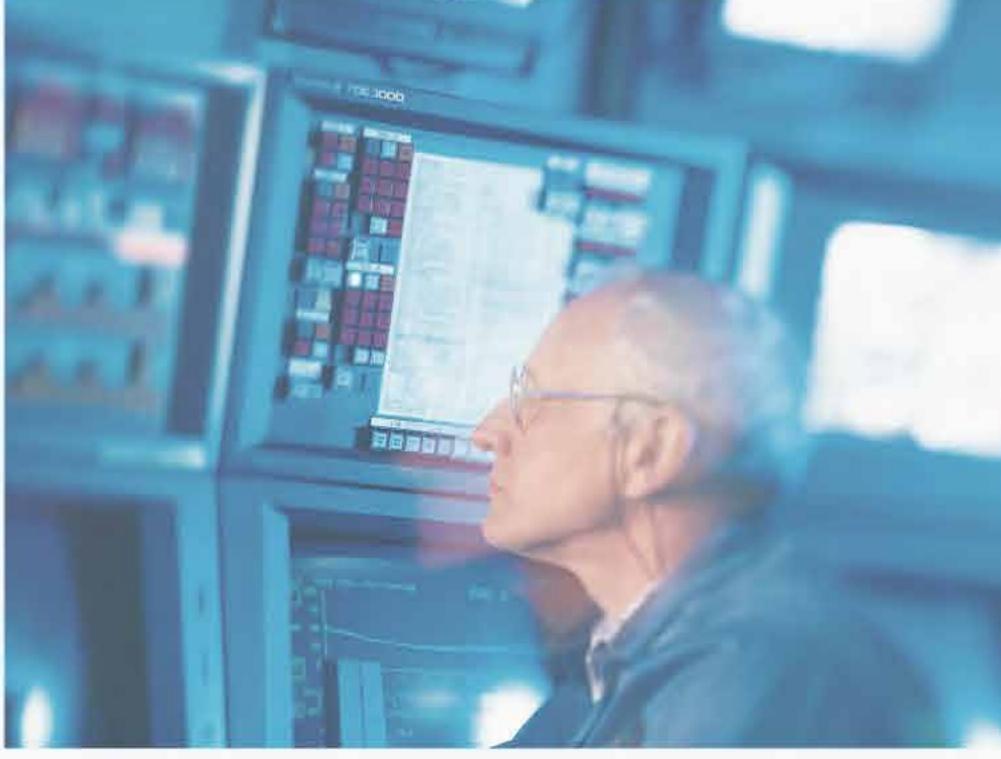






















Communication technology drives innovation in every industry.

Our MONITOUCH programmable displays have been used in various fields - airplane, railway and power plant control systems, electronically controlled order systems for restaurants, factory automation systems, etc. With its sophisticated communication technology, the "TECHNOSHOT" series accelerates development in all industries.

Product Line Up

Compact yet highly functional

TS1071 series (TFT LED Serial ID-sub9x2)

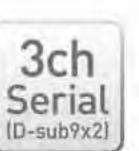


















TS1071i (Silver) TS1071i -U126 (Black)

Specifications

Model			TS1071i	TS1071i-U126
	Display size		7" Wide	
Display	Resolution		800 × 480 dots	
	Display device		TFT color LCD	
	Colors		65,536 colors	
	Backlight		LED	
	Luminance		450 cd/m²	
Touch switch			Analog resistance film	
Memory	FROM		10.5 MB	
	SRAM		128 KB	
External interface	Serial	COM1	RS-422/485, Asynchronous, Data length: 7,8 bits, Parity: even/odd/none, Stop bit: 1,2 bits Baud rate: 4800/9600/19200/38400/57600/76800/115200/187500*1 bps	
		COM2 & COM3	RS-232C, Asynchronous, Data length: 7,8 bits, Parity: even/odd/none, Stop bit: 1,2 bits Baud rate: 4800/9600/19200/38400/57600/76800/115200 bps	
			RS-422/485(two-wire system), Asynchronous, Data length: 7,8 Baud rate: 4800/9600/19200/38400/57	
	Ethernet		100BASE-TX/10BASE-T	
	USB (Type A)		1 port (Ver. 2.0, Ver. 1.1)	
	USB (Type mini B)		1 port (Ver. 2.0, Ver. 1.1)	
Mook	Battery		Coin-type lithium primary battery	
Clock	Calendar accuracy		Gap±5 sec. per month (Ambient temperature 25 °C)	
Power supply	Permissible range of voltage		DC 24 V ± 10 %	
	Demand (maximum rating)		16 W or less	
	Ambient operating temperature		0-50 °C*2	
	Ambient storage temperature		-10-60 °C*2	
hysical environment	Relative humidity		85 % RH or less(without dew condensation, Max. we	et bulb temperature: 39 °C or less)
	Operation altitude		2,000 meters or les	SS
	Operation atmosphere		Not exposed to corrosive gas or excessive dust (free of conductive dust)	
	Contamination level		Level 2	
Installation conditions	Dimensions W × H × D		215.0 × 155.0 × 42.0 mm	
	Panel cutout W × H		189.0 × 134.0 mm (+0.5/-0)	
	Protect structure		Front panel: Compatible with IP65 (when waterproof gasket*3 is used.), Rear cabinet: Compatible with IF Form: Single unit, Installation method: Panel mounting	
Case color			Black	
Compatibility			UL, CE, KC	

^{*1} Available only when connected with SIEMENS MPI. *2 Keep wet bulb temperature under 39°C to avoid an accident. *3 Option



Wide screen to display more information

TS1101 series (10.2 wyga 64K TFT)

















Specifications

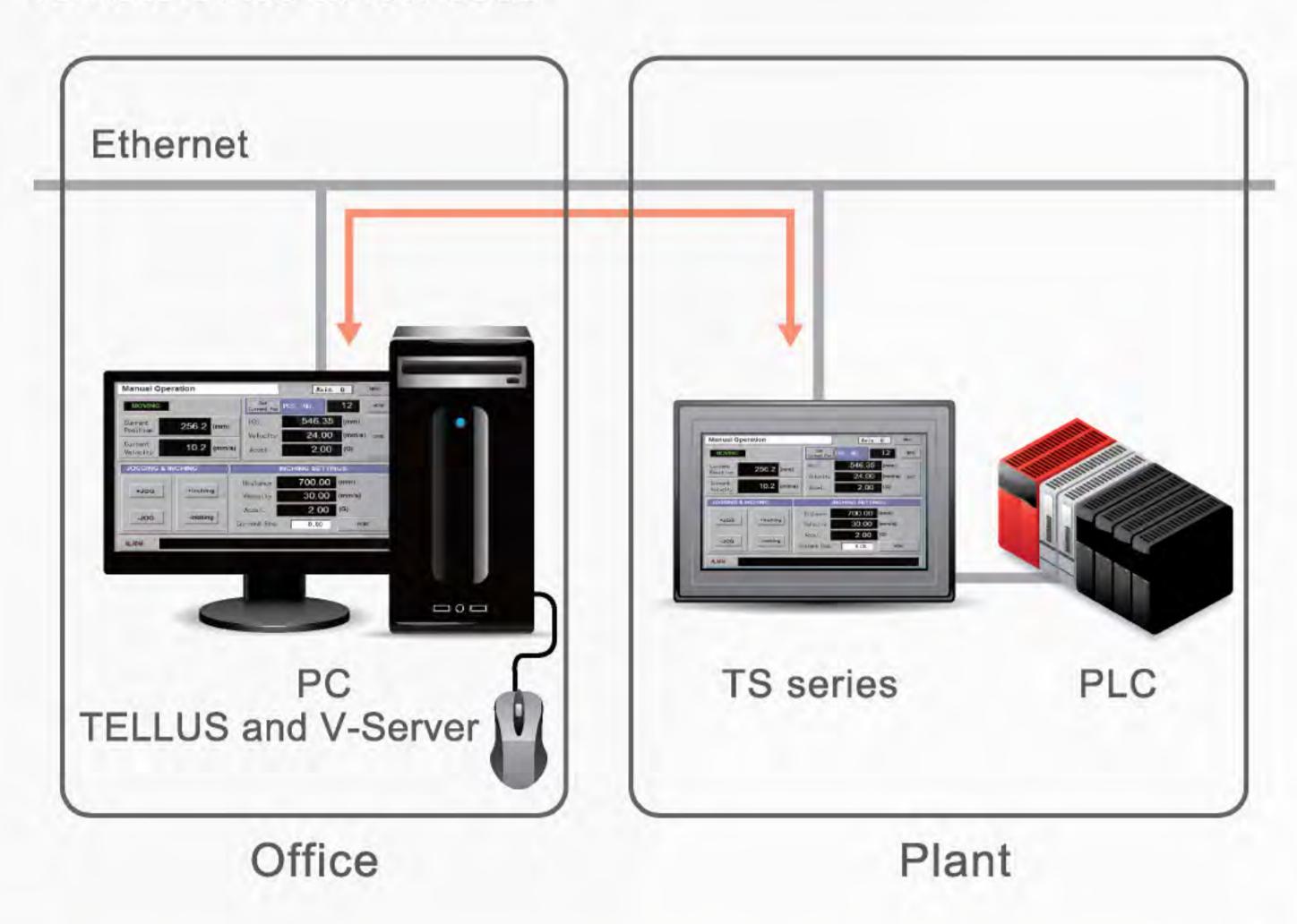
	Model		TS1101i	TS1101i-U126
	Display size		10.2" Wide	
Display	Resolution		800 × 480 dots	
	Display device		TFT color LCD	
	Colors		65,536 colors	
	Backlight		LED	
	Luminance		350 cd/m ²	
Touch switch			Analog resistance film	
Manager	FROM		10.5 MB	
Memory	SRAM		128 KB	
External interface	Serial	COM1	RS-422/485, Asynchronous, Data length: 7,8 bits, Parity: even/odd/none, Stop bit: 1,2 bits Baud rate: 4800/9600/19200/38400/57600/76800/115200/187500*1 bps	
		COM2 & COM3	RS-232C, Asynchronous, Data length: 7,8 bits, Parity: even/odd/none, Stop bit: 1,2 bits Baud rate: 4800/9600/19200/38400/57600/76800/115200 bps	
			RS-422/485(two-wire system), Asynchronous, Data length: 7,8 bits, Parity: even/odd/none, Stop bit: 1,2 bit Baud rate: 4800/9600/19200/38400/57600/76800/115200 bps	
	Ethernet	*************************	100BASE-TX/10BASE-T	
	USB (Type A)		1 port (Ver. 2.0, Ver. 1.1)	
	USB (Type mini B)		1 port (Ver. 2.0, Ver. 1.1)	
Clock	Battery		Coin-type lithium primary battery	
	Calendar accuracy		Gap±5 sec. per month (Ambient temperature 25 °C)	
Power supply	Permissible range of voltage		DC 24 V ± 10 %	
	Demand (maximum rating)		16 W or less	
	Ambient operating temperature		0-50 °C*2	
	Ambient storage temperature		-10-60 °C*2	
Physical environment	Relative humidity		85 % RH or less(without dew condensation, Max. v	wet bulb temperature:39 °C or less)
r nysicai environnent	Operation altitude		2,000 meters or le	ess
	Operation atmosphere		Not exposed to corrosive gas or excessive dust (free of conductive dust)	
	Contamination level		Level 2	
Installation conditions	Dimensions W × H × D		283.0 × 220.0 × 42.0 mm	
	Panel cutout W × H		257.0 × 199.0 mm (+0.5/-0)	
	Protect structure		Front panel: Compatible with IP65 (when waterproof gasket*3 is used.), Rear cabinet: Compatible with IP2 Form: Single unit, Installation method: Panel mounting	
Case color	or		Black	
Compatibility	bility		UL, CE, KC	

^{*1} Available only when connected with SIEMENS MPI. *2 Keep wet bulb temperature under 39°C to avoid an accident. *3 Option

High-level functions, user-friendliness and remote control with dedicated software

01 Remote Maintenance

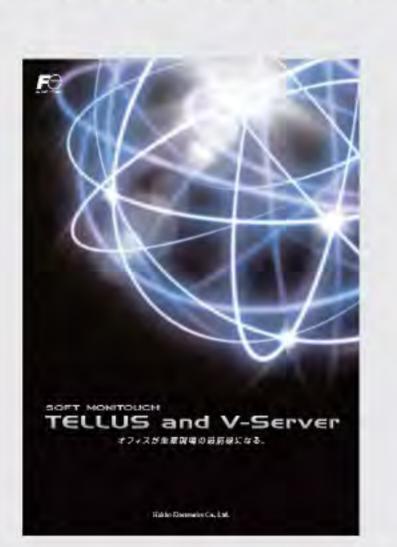
Data in a TS panel can be monitored and controlled from a remote office at low cost.



Application software for connecting your office and production sites at low cost

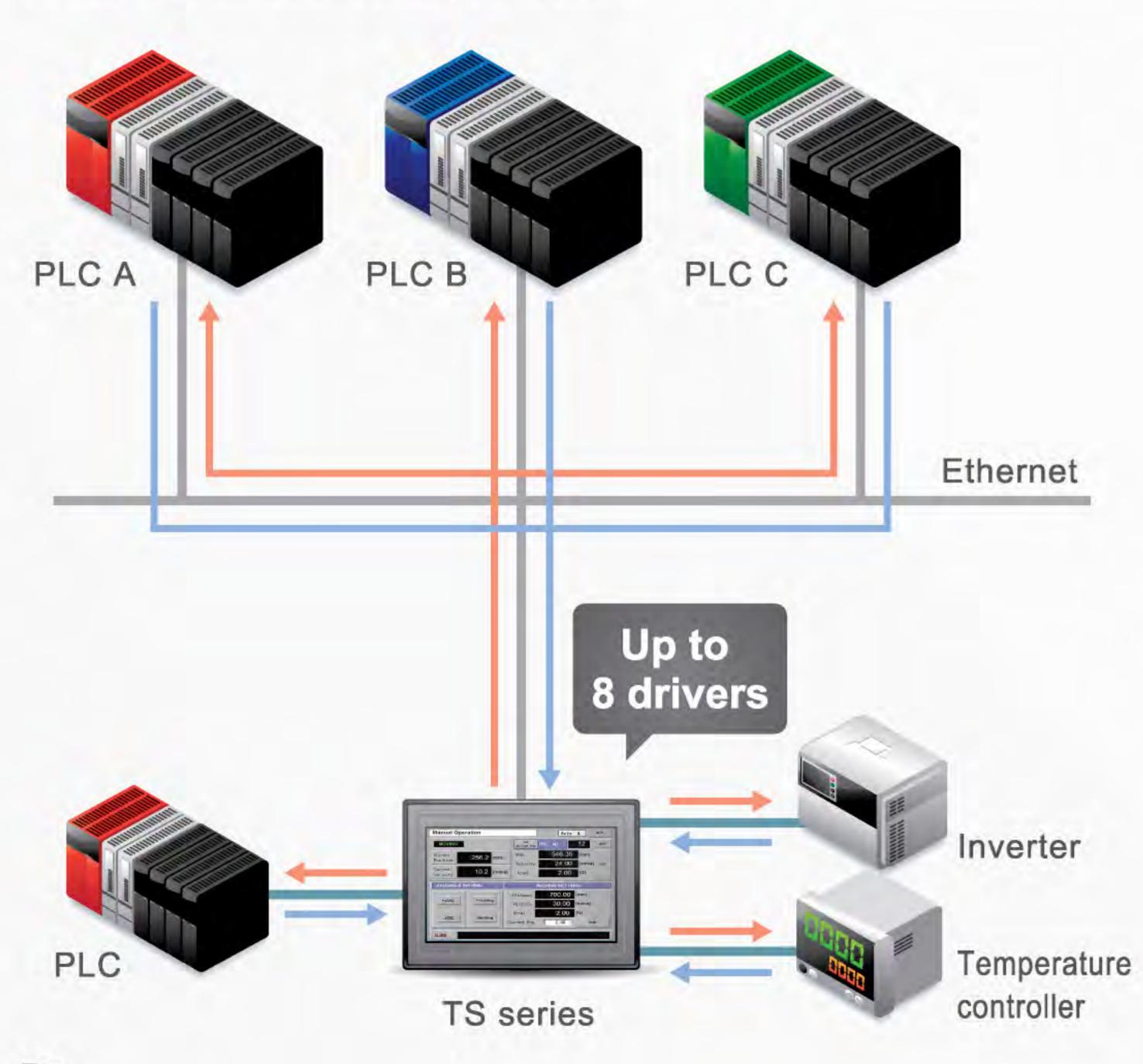
TELLUS and V-Server

This software enables collection and management of production site information via the Internet in real time from your office in Japan or overseas.



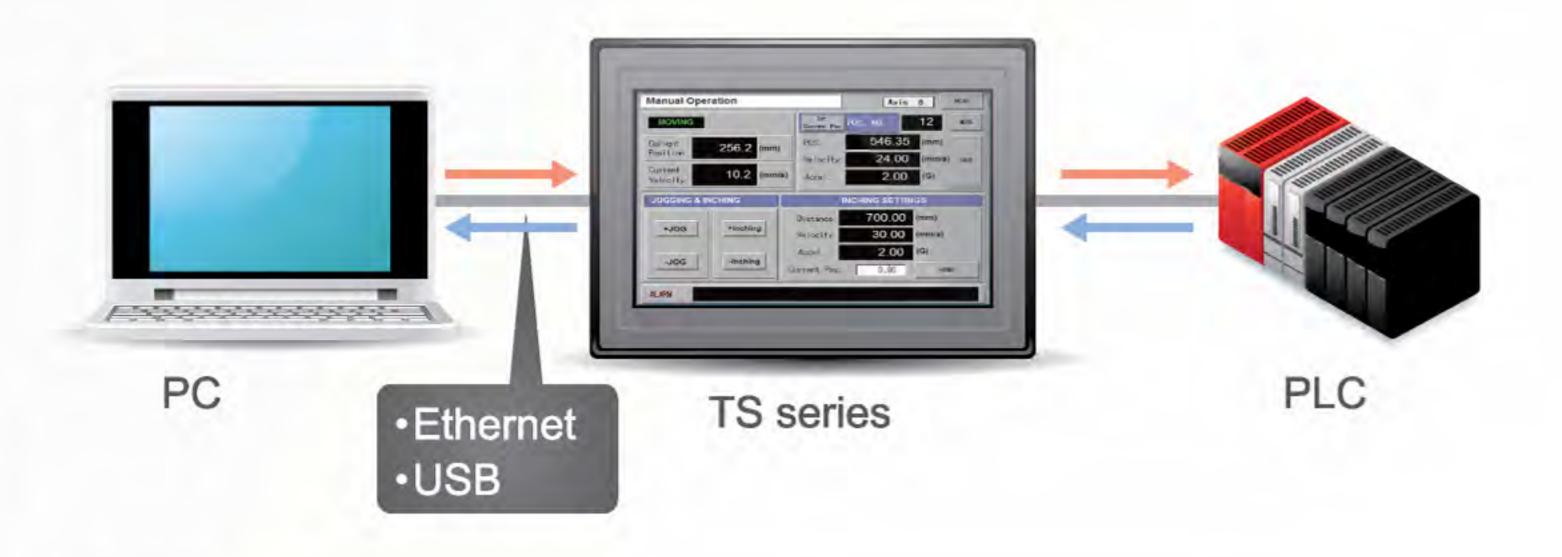
02 8-way Communication

Communication is available with up to eight kinds of devices consisting of PLCS and peripherals of different manufacturers through Ethernet or serial connection.



03 Path-through Programming

TECHNOSHOT allows you to write/read PLC ladder programs to/from your PC through Ethernet or USB connection.



04 Multilanguage

You can change the language displayed on the screen to one of 16 languages. You need not manage files for each language.



TS series

Compatible language fonts:

Japanese, English/ Western European,

Chinese (traditional and simplified), Korean,

Central European, Cyrillic, Greek, Turkish and Baltic.

05 Trend Sampling

Various kinds of data, which change from moment to moment, are recorded chronologically and shown in a trend graph.



TS series

OZoom Display

Magnification of a specified area allows you to check the waveform of the trend graph specifically.

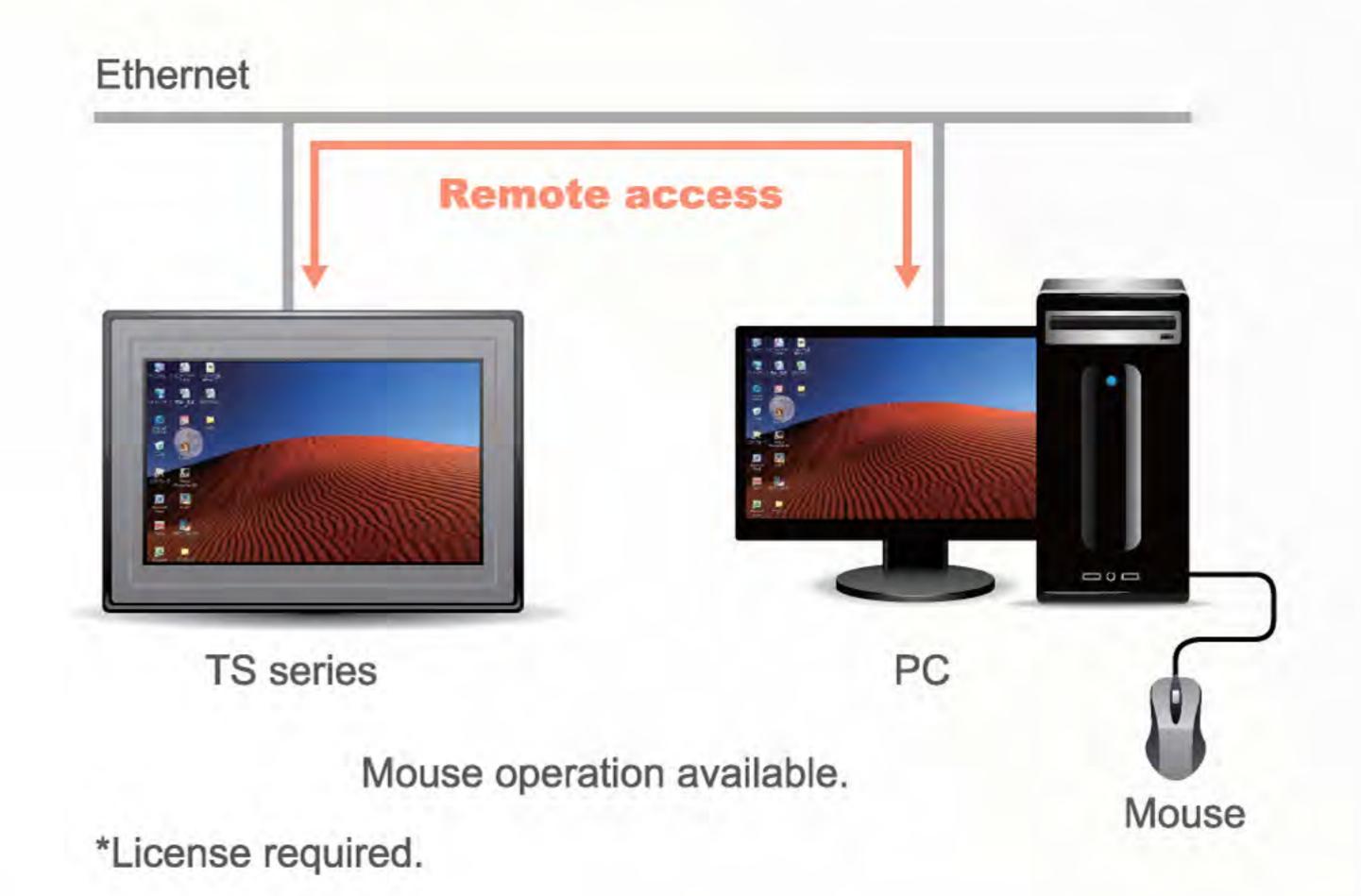


(Same size)



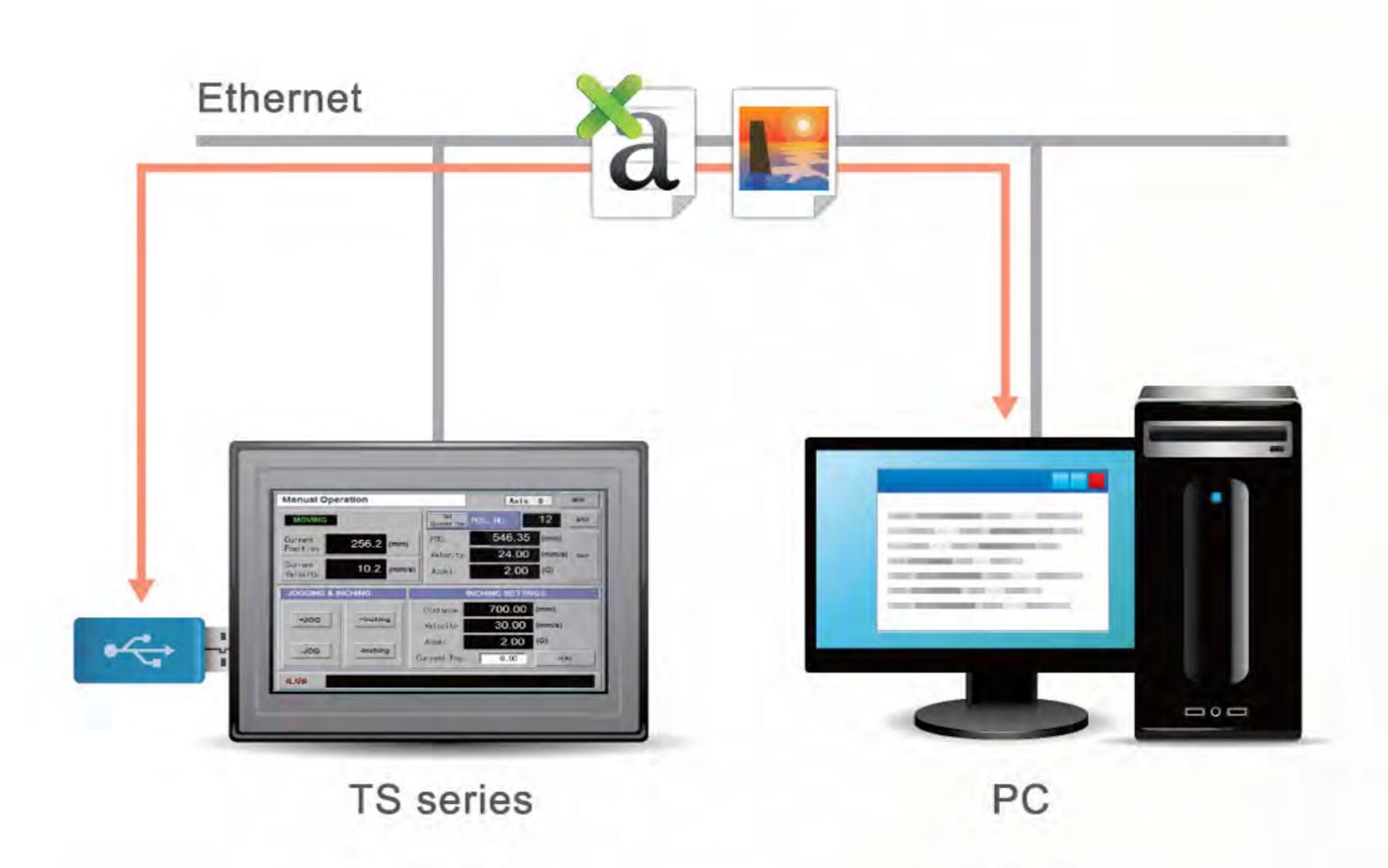
06 Remote Desktop*

Screen on the server PC can be displayed and operated on a TS panel through Ethernet.



07 FTP Server

Data in the USB thumb drive fitted to the TS panel can be read or written from/to the PC via FTP client tool.



08 Operation Log

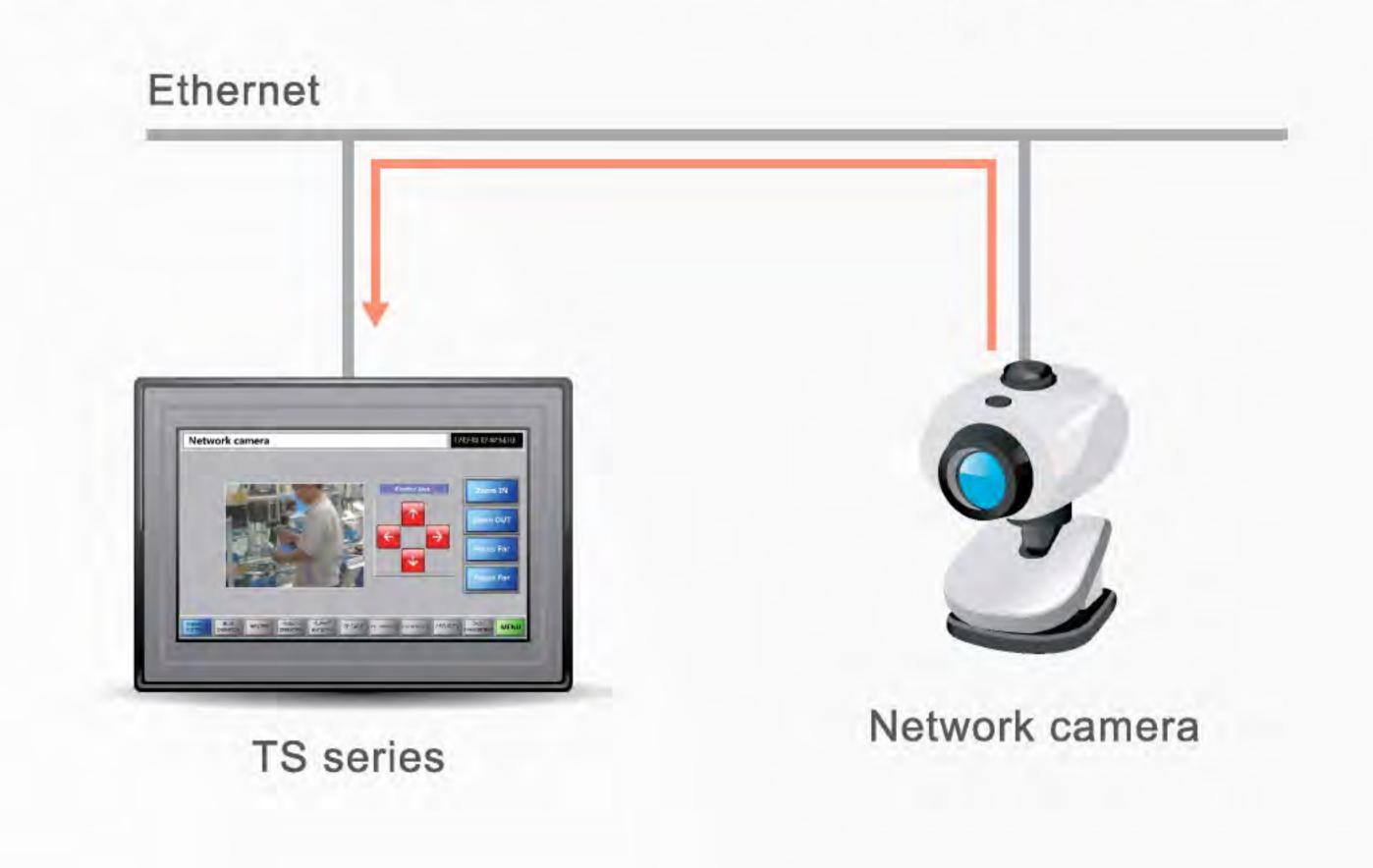
You can view log data for operations such as pushing of buttons and entering of values to check the "who/when/what/how" history and analyze the causes of failure.



Operation history is saved as a binary file. No need to worry about falsification of data.

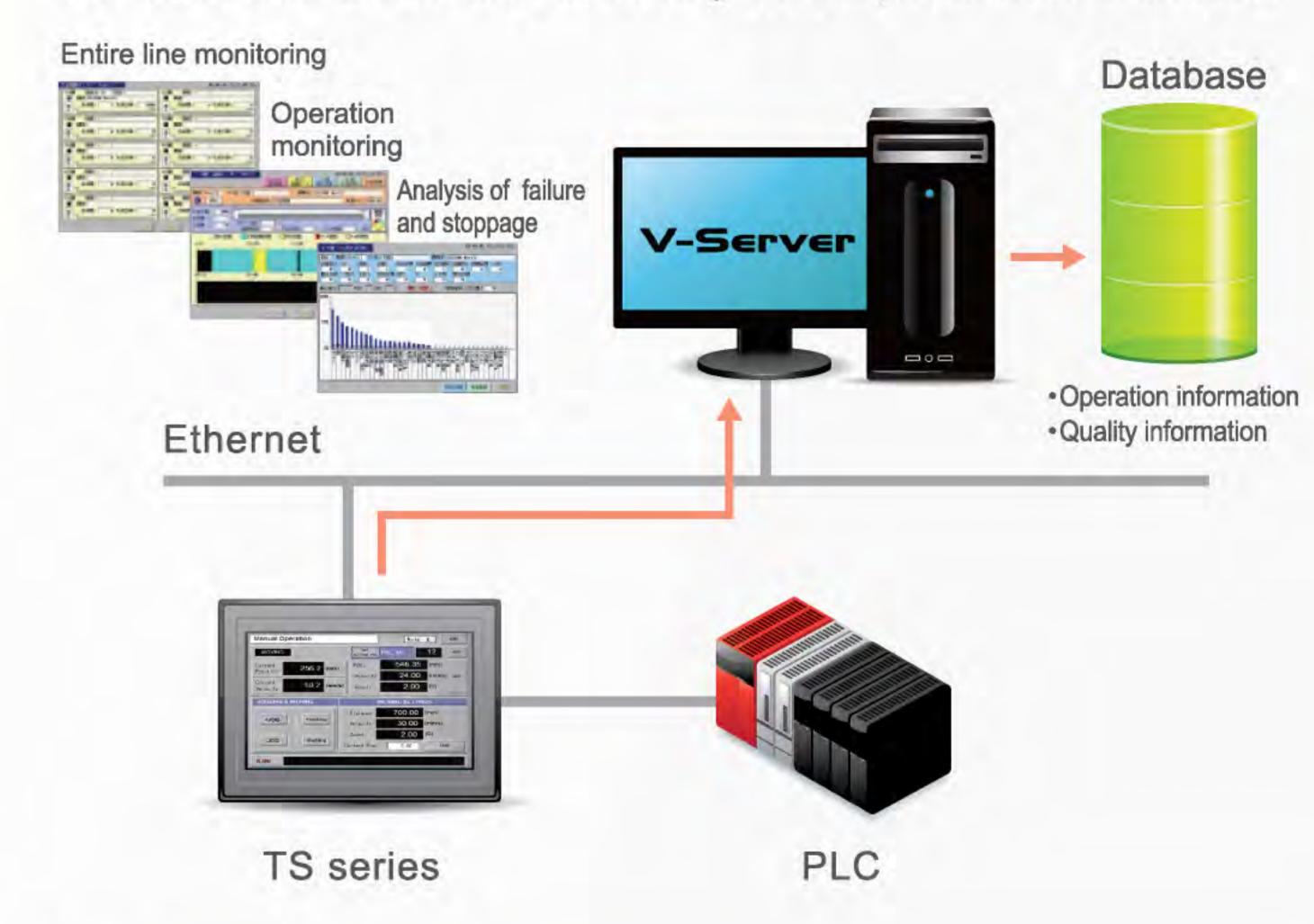
09 Network Camera

Images shot by network cameras can be displayed on a TS panel via Ethernet, which enables monitoring of production lines.



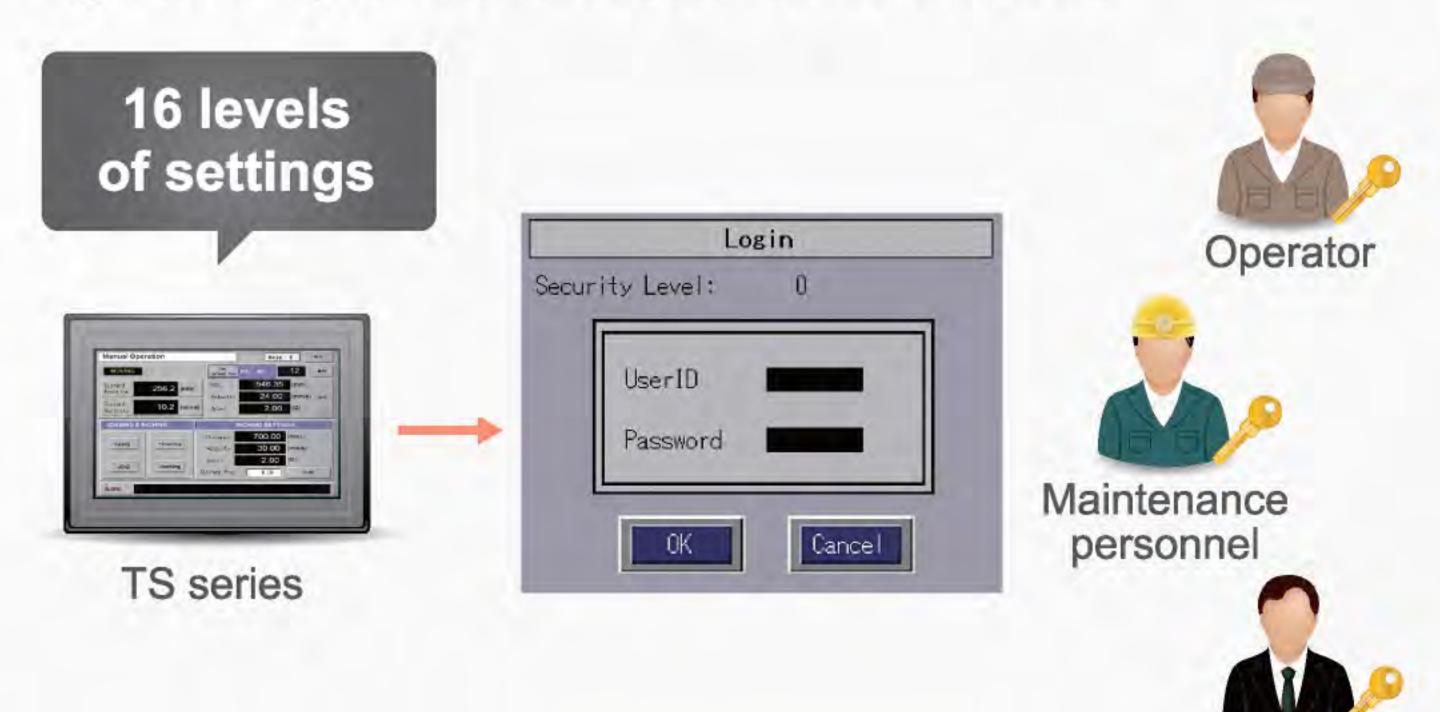
10 MES

Various types of information such as production results and causes of failure and stoppage can be collected and saved in the database of the server through a TS panel and V-server.



11 Security Function

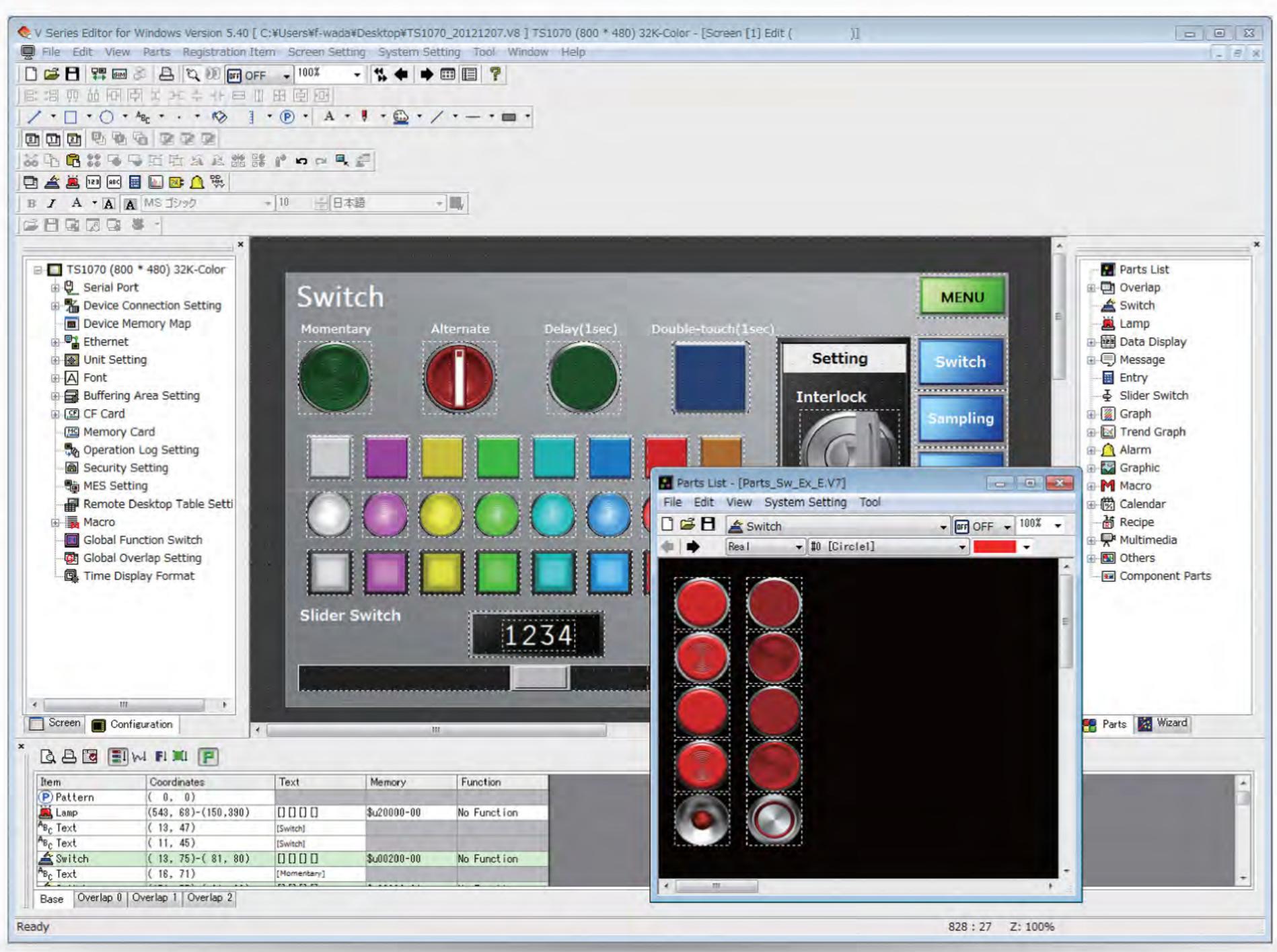
By setting a function limit according to the user level, a high-security environment can be established.



Administrator

Facilitates screen configuration and maintenance with various functions





PC	PC/AT compatibles with Windows			
os	Windows98SE/ Me/ NT Version4.0/ 2000/ XP/ XP 64 Edition/ Vista 32bit/ Vista 64bit/ Win7 32bit/ Win7 64bit/ Win8 32bit/ Win8 64bit*			
CPU	Pentium III 800MHz or higher (Pentium4 2.5GHz or higher is recommended.)			
Memory	512MB or more			
Hard disk	For installation: 1GB or more space required			
CD-ROM disk drive	24 times or faster			
Display	Resolution of 1,024 × 768 (XGA) or higher			
Color indication	High color (16 bit) or higher			
Note	Microsoft.NET Framework4.0 or 4.5 (Framework4.0 will be installed automatically in Windows XP/ Vista/ 7 PCs that do not have NET Framework4.0 or 4.5 already installed.)			

^{*}For installing in Windows NT Version4.0/ 2000/ XP/ XP 64 edition/ Vista 32bit/ Vista 64bit/ Win7 32bit/ Win7 64bit/ Win8 32bit/ Win8 64bit, administrator authorization is required.

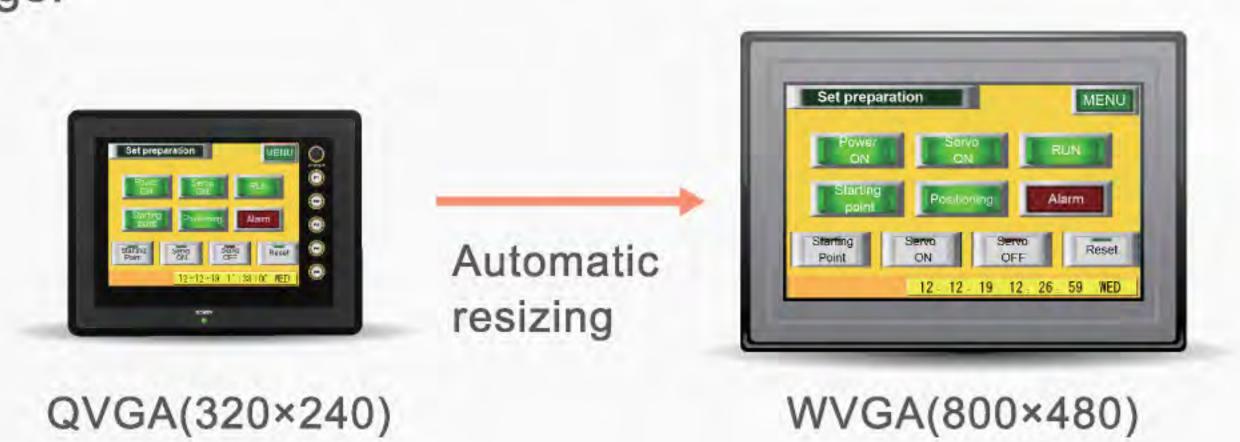
01 Emulator

V-SFT Ver.5 allows debugging of the screen program on your PC.



02 Auto Resizing

Automatic resizing from QVGA (320×240) to WVGA (800×480). Previous screen program can be used without change.



03 Function Switches Display*

Function switches on the previous models can be added to the screen, and the screen program for the function switches can be used as well.



Automatic arrangement of function switches

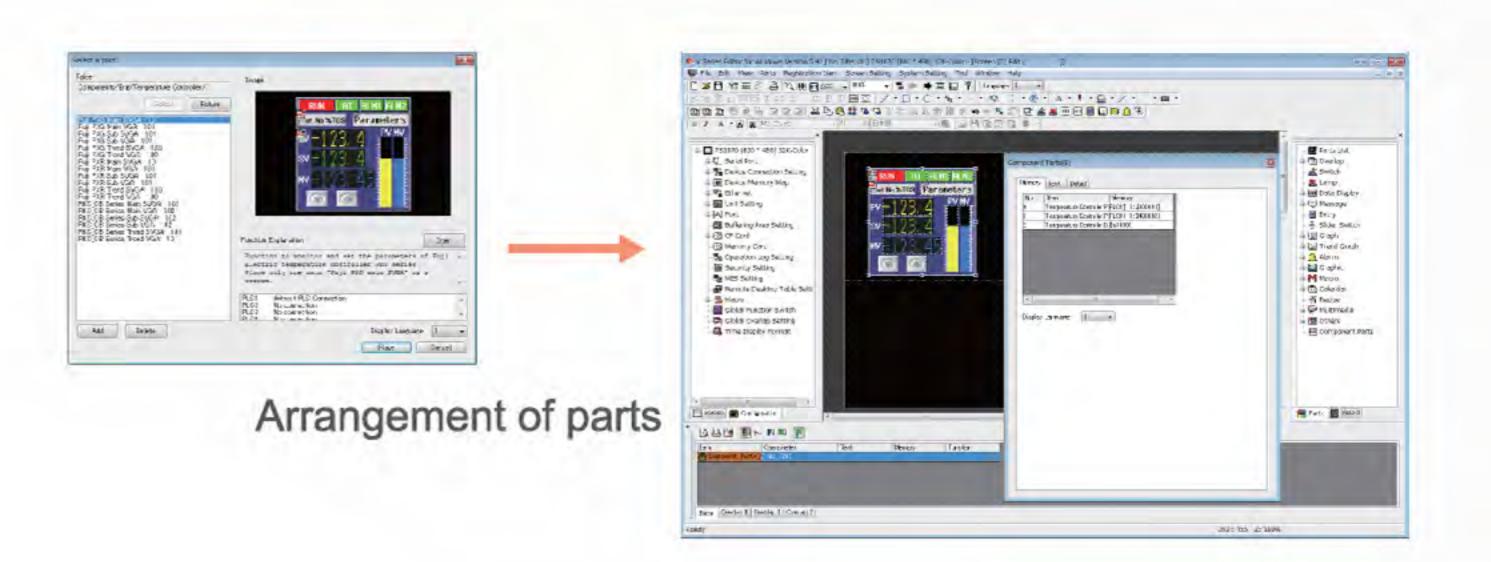
^{*}TS series is compatible with Ver.5.4.28.0 or later.

^{*}Two-step switch operation is not available.

Creating sophisticated screens by selecting parts with desired functions and macros.

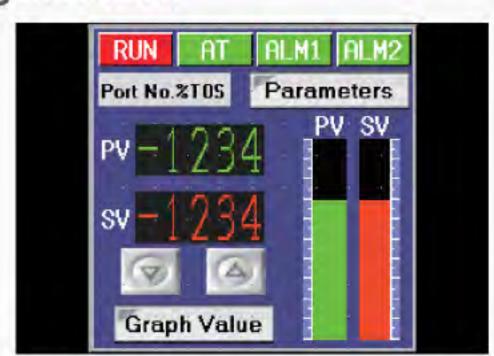
Of Selection from Parts Library

You can easily create screens by selecting component parts from the parts library and arranging them.

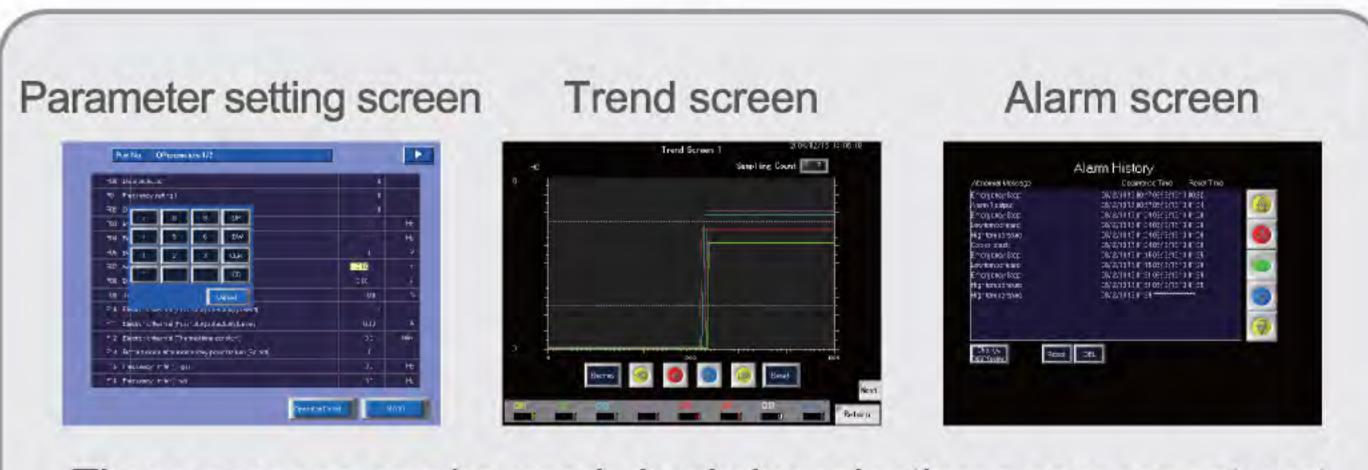


03 Screens Integrated in a Part

A component part consisting of some screens facilitates quick screen configuration.



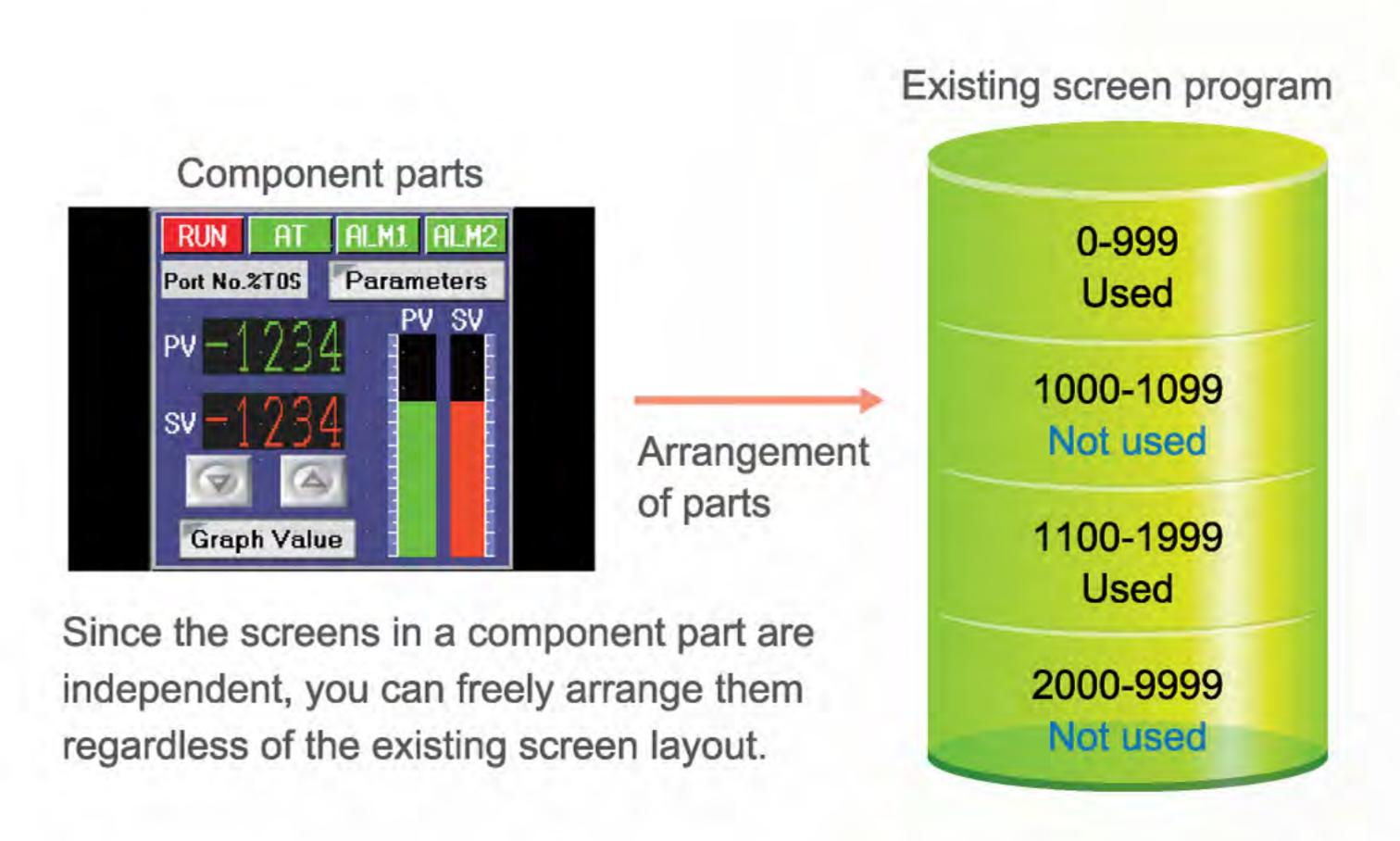
Component parts for a temperature controller



These screens can be used simply by selecting a component part.

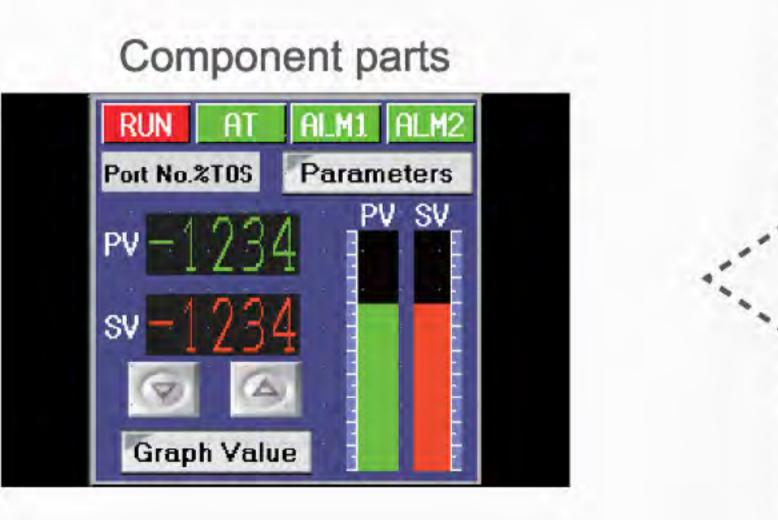
02 Addition to the Existing Program

Component parts can be easily added to the unused area in the existing screen program.



04 No Worry about Memory Shortage

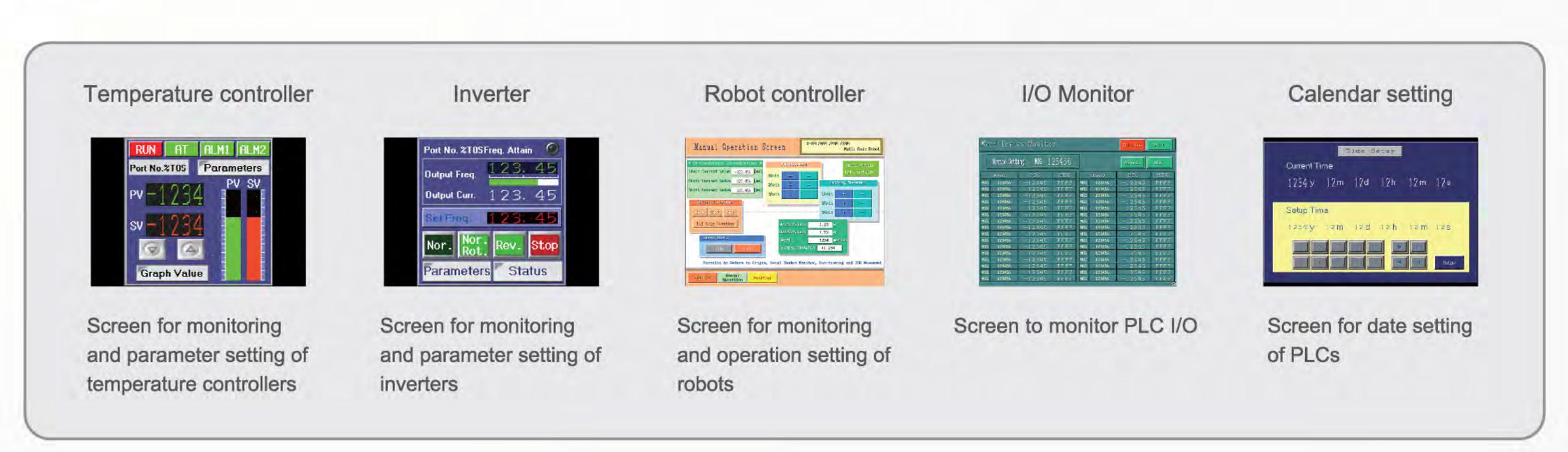
Extra memory is provided for component parts separately from the memory for existing screens.



Extra memory \$C for component parts
4,096 words

05 A variety of Component Parts

Component parts with various functions can be selected from the parts list to create screens according to your purpose easily.



Optimum system configuration is available in accordance with type of business, site needs, environment, etc.

TS1071 series (Unit: mm) Side view Front view Rear view 215.0 36.0 188.0 155.0 UUU 6 MONITOUCH 3 4 **Bottom view** Panel cutout 189.0 ^{+0.5} 188.0 45.0 TS1101 series (Unit: mm) Side view Front view Rear view 283.0 256.0 36.0 ١١١١١ماللاهاله DOND DOOD SOLD 198.0 220.0 6 MONITOUCH 3 4 **Bottom view** Panel cutout 257.0 +0.5 256.0 +0.5 199.0 Part Names **5** USB slave (Type mini B) Power supply terminal 2 Serial D-sub 9-pin (COM1) 6 USB master (Type A) 3 Serial D-sub 9-pin (COM2/COM3) DIP switch

8 Battery

4 100BASE-TX/10BASE-T connector (LAN)



Option

V-SFT-5 (Configuration software)*

Compatible OS:

Windows98SE/ Me/ NT Version4.0/ 2000/ XP/ XP64 edition/ Vista 32bit/ Vista 64bit/ Win7 32bit/ Win7 64bit/ Win8 32bit/ Win8 64bit

*TS series is compatible with Ver.5.4.28.0 or later.



USB-CFREC (CF card recorder (USB))

Used for recording or reading data onto/from a CF card. Fitted on the control panel.



UA-FR (USB-A port cable)

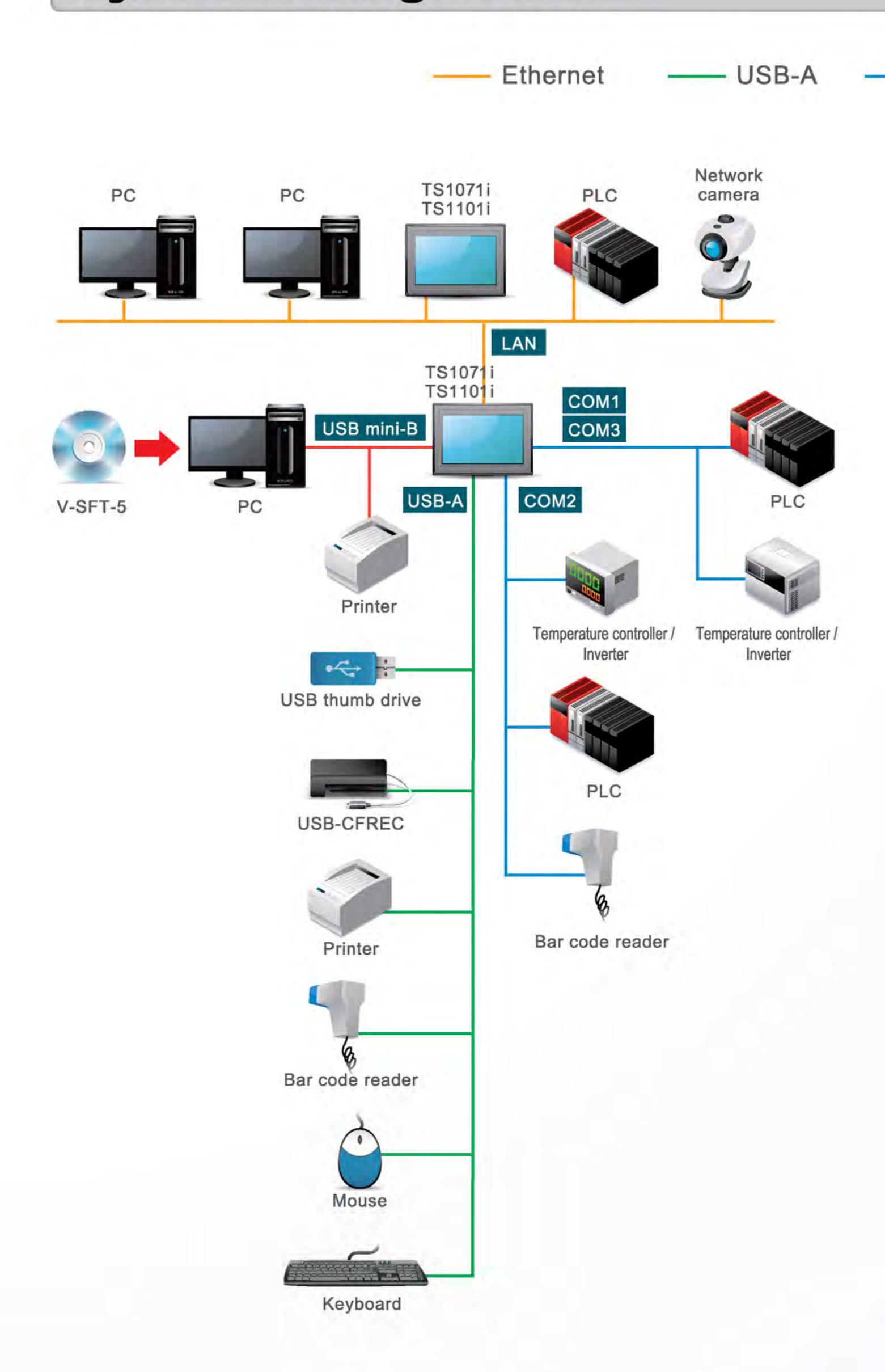
Serial

Cable to connect to the USB-A (slave) port.

USB mini-B



System Configuration





Safety Considerations

- For safe operation, read the instruction manual or user manual that comes with the product carefully or consult the distributor from which you purchased the product, before using the product.
- Products introduced in this catalog have not been designed or manufactured for such applications in a system or equipment that will affect human bodies or lives.
- Customers, who want to use the products introduced in this catalog for special systems or devices such as for atomic-energy control, aerospace use, medical use, passenger vehicle, and traffic control, are requested to consult the Hakko Overseas Sales Section.
- Customers are requested to prepare safety measures when they apply the products introduced in this catalog to such systems or facilities that will affect human lives or cause severe damage to property if the products become faulty.
- For safe operation, wiring should be conducted only by qualified engineers who have sufficient technical knowledge about electrical work or wiring.

Notes to consider before purchasing

- Appearance and specifications are subject to modification without prior notice due to technical improvements.
- Colors in the catalog may differ from the actual colors due to printing inaccuracies.
- Consult your distributor or us for further information about products in this catalog.

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^{*} Combined images are used for the screen images.

Product colors may differ from colors in brochure photos due to printing.

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^{*} Printed with environment-friendly soy ink.