

Programmable Display

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.



Compact yet highly functional

TS1070 series (F. Tinches WVGA 64K Colors TFT LED Backlight Colors TFT LED Master/ Slave Ethernet



TS1070 Model

— Functional specifications: NA: Without built-in LAN port i: With built-in LAN port

Specifications

	Model		TS1070i	TS1070
	Display size		7" Wide	
Display	Resolution		800 × 480 dots	
	Display device		TFT color LCD	
	Colors		65,536 colors	
	Backlight		LED	
	Luminance		450 cd/m²	
Γouch 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, Pa Baud rate: 4800/9600/19200/38400/5	
			RS-422/485(two-wire system), Asynchronous, Data length: Baud rate: 4800/9600/19200/38400.	
	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)	
Nook	Battery		Coin-type lithium primary battery	
Clock	Calendar accuracy		Gap±5 sec. per month (Ambient temperature 25 °C)	
tower oundly	Permissible range of voltage		DC 24 V ± 10 %	
Power supply	Demand (maximum rating)		16 W or less	
	Ambient operating temperature		0-50 °C*2	
Physical environment	Ambient storage temperature		-10-60 °C*2	
	Relative humidity		85 % RH or less(without dew condensation, Max. wet bulb temperature: 39 °C or less)	
	Operation altitude		2,000 meters or less	
	Operation atmosphere		Not exposed to corrosive gas or excessive dust (free of conductive dust)	
	Contamination level		Level 2	
	Dimensions W × H × D		215.0 × 155.0 × 42.0 mm	
Installation conditions	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 IP20 Form: Single unit, Installation method: Panel mounting	
Case color			Black	
Compatibility			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

TS1100 series (F Told Inches WYGA 64K Colors TFT LED Backlight Inches) WYGA 64K Colors TFT LED Backlight Inches WYGA (10-subbyz) WYGA (10-subb









TS1100 Model

TS1100 — Functional specifications: NA: Without built-in LAN port i: With built-in LAN port

Specifications

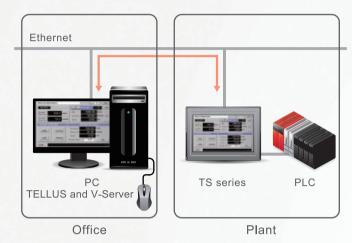
Model			TS1100i	TS1100
	Display size		10.2" Wide	
Display	Resolution		800 × 480 dots	
	Display device		TFT color LCD	
	Colors		65,536 colors	
	Backlight		LED	
	Luminance		350 cd/m²	
Touch switch			Analog resistance film	
Memory	FROM		10.5 MB	
	SRAM		128 KB	
	Serial	COM1	RS-422/485, Asynchronous, Data 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	
		СОМ2 & СОМ3	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	
External interface			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)	
Clask	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 %	
Power supply	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, N	Max. wet bulb temperature:39 °C or less)
i nysicaj chvironincht	Operation altitude		2,000 meters or less	
	Operation atmosphere		Not exposed to corrosive gas or excessive dust (free of conductive dust)	
	Contamination level		Level 2	
	Dimensions W × H × D		283.0 × 220.0 × 42.0 mm	
Installation conditions	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 IP Form: Single unit, Installation method: Panel mounting	
Case color			Black	
Compatibility			CE, K	C

TECHN SHOT

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

01 Remote Maintenance i series only

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

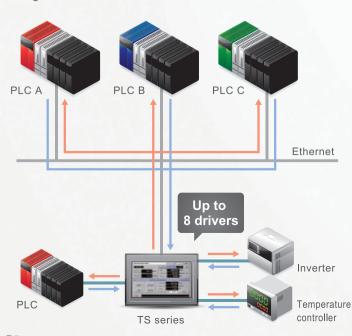
TELLUS and V-Server

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



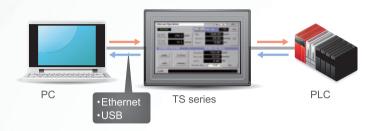
02 8-way Communication

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.



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

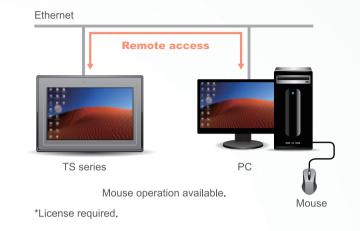
Zoom Display

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



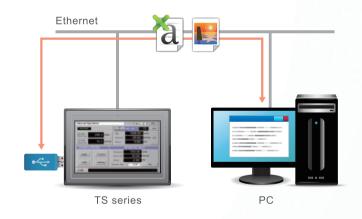
06 Remote Desktop* i series only

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



07 FTP Server i series only

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

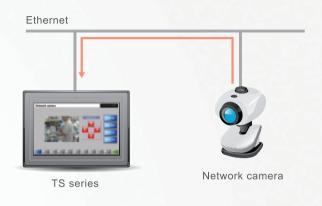
You can view log data for operations such as pushing of buttons and entering of values to check the "who/when/what/how" history and analyze the causes of failure.



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

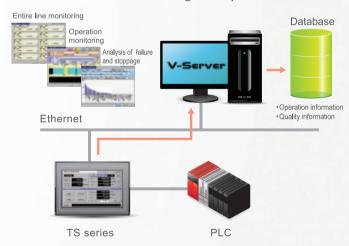
09 Network Camera i series only

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



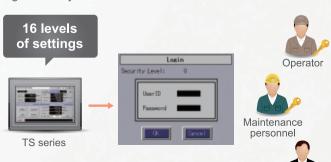
10 MES i series only

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.



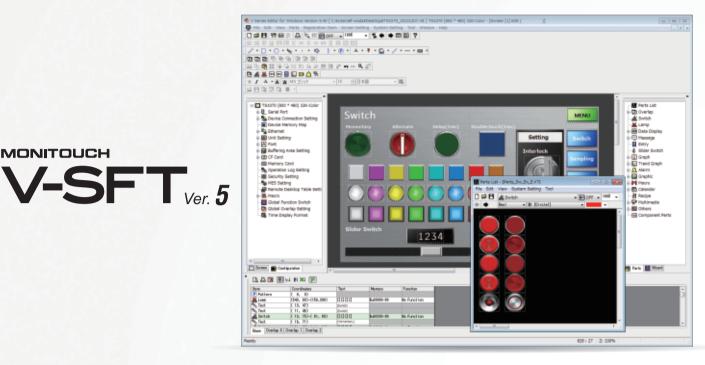
Security Function

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



P6

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 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 *TS series is compatible with Ver.5.4.28.0 or later

Emulator

MONITOUCH

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



Auto Resizing

P7

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



WVGA(800×480)

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.



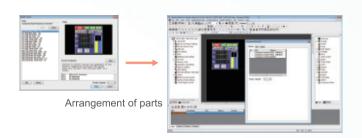
Automatic arrangement of function switches

01 Selection from Parts Library

Component Parts

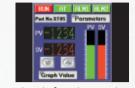
Creating sophisticated screens by selecting parts with desired functions and macros.

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.



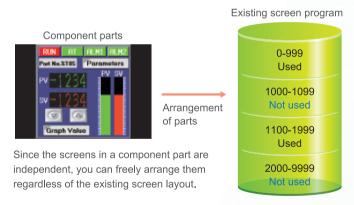
Component parts for a temperature controller



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

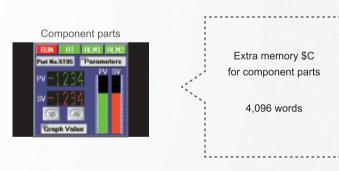
02 Addition to the Existing Program

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



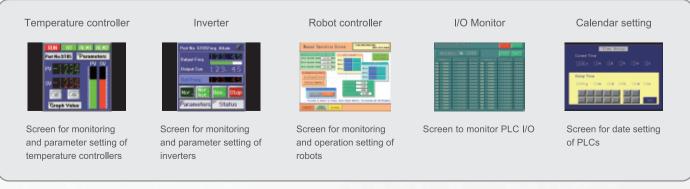
04 No Worry about Memory Shortage

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



05 A variety of Component Parts

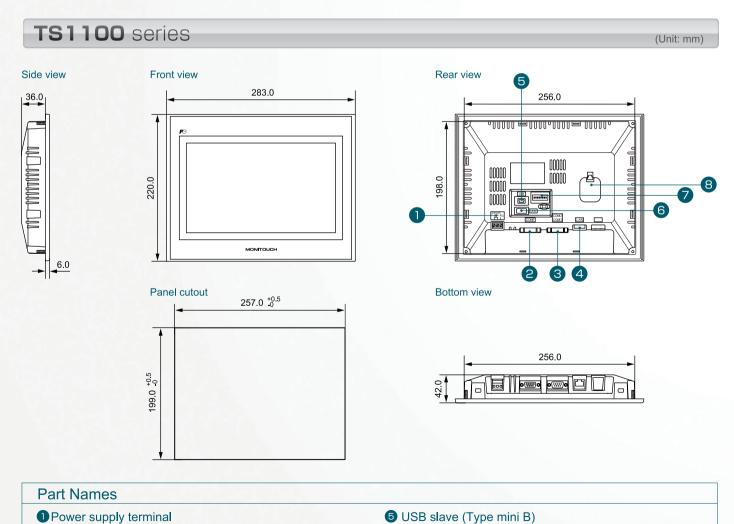
Component parts with various functions can be selected from the parts list to create screens according to your purpose easily.



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

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

TS1070 series (Unit: mm) Side view Front view Rear view 215.0 Panel cutout Bottom view 189.0 ^{+0.5} 188.0



6 USB master (Type A)

DIP switch

8 Battery

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



USB-CFREC (CF card recorder (USB))

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



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

TS1070-WP / TS1100-WP (Waterproof gasket)

Waterproof gasket for operation panels (used when waterproof level IP65 is required)

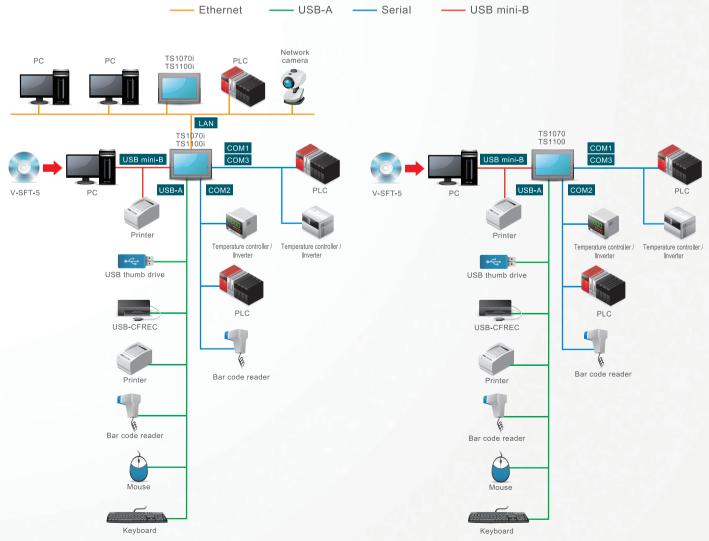


UA-FR (USB-A port cable)

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



System Configuration



2 Serial D-sub 9-pin (COM1)

3 Serial D-sub 9-pin (COM2/COM3)

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

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.
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www.monitouch.com

Hakko Electronics Co., Ltd.

Overseas Sales Department 238 Kamikashiwano-machi. Hakusan, Ishikawa 924-0035, Japan

+81-76-274-2144

•Fax

+81-76-274-5136

sales@hakko-elec.co.jp

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