

Programmable Operator Interface

MONITOUCH

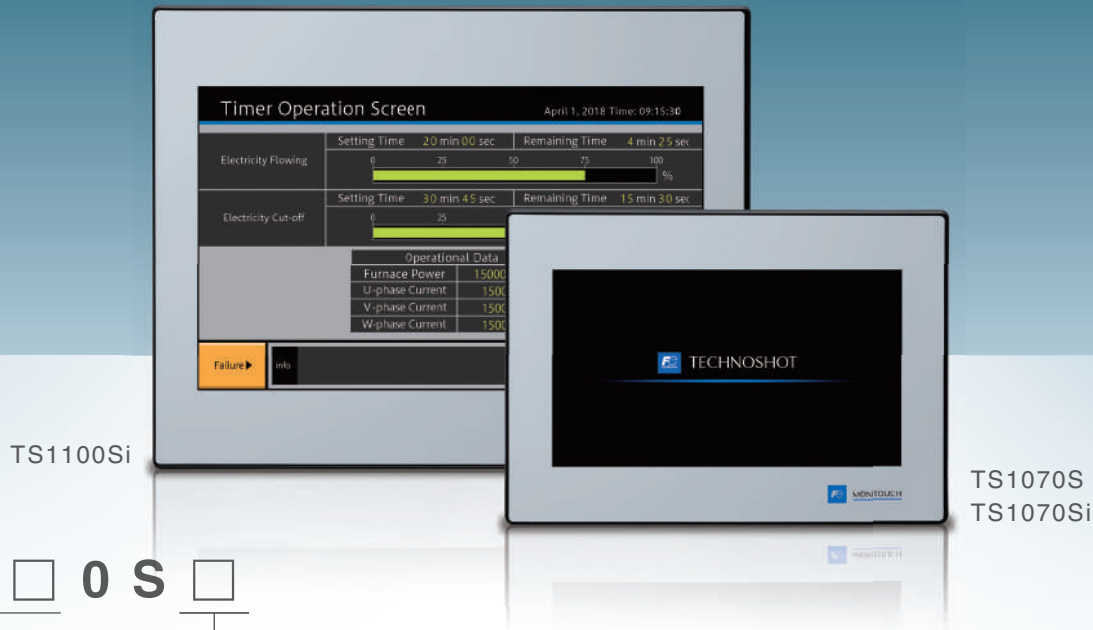
Consolidating Essential Functionality
while Enhancing Operability and Visibility



TECHNOSHOT
TS1000 Smart Series

TECHNOSHOT TS1000 Smart Series

- Supports remote operation via VNC server
- Complies with several global standards (CE/KC/UL/cUL)
- Expands FROM capacity 220%*(26 MB) *Compared to TS1000 series



Model

TS1□□0S□

Display size
07: 7.0" widescreen
10: 10.2" widescreen

Interface
i : Built-in Ethernet port
None : No built-in Ethernet port

Specifications

WVGA 64K Colors TFT LED Backlight 3ch Serial Master/Slave USB Ethernet (i type only)

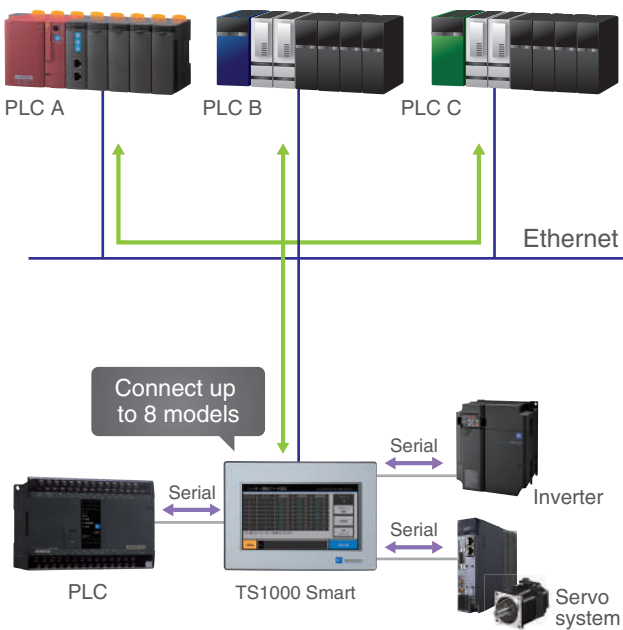
Item		TS1070S	TS1070Si	TS1100Si
Main unit	Screen size	7.0" widescreen		10.2" widescreen
	Display device	TFT color		
	Resolution	800 × 480 dots		
	Colors	65,536 colors		
	Backlight	LED		
	Touch screen	Analog resistive		
	Certifications	CE/KC/UL/cUL		
User memory	FROM	26MB		
	SRAM	128KB		
External interface	COM1 D-Sub9 pin (female)	RS-422/RS-485 (4-wire/2-wire) Data length: 7, 8 bits Parity: Even, odd, none Stop bits: 1, 2 dots Baud rate: 4,800, 9,600, 19,200, 38,400, 57,600, 76,800, 115,200, 187,500*1bps		
	COM2/COM3 D-Sub9 pin (male)	COM2: RS-232C COM3: RS-422/RS-485 (2-wire) Data length: 7, 8 bits Parity: Even, odd, none Stop bits: 1, 2 bits Baud rate: 4,800, 9,600, 19,200, 38,400, 57,600, 76,800, 115,200 bps		
	Ethernet	—	1 ch	
	USB-A	1 ch		
	USB mini-B	1 ch		
Power supply	Permissible range of voltage	DC24V±10%		
	Power consumption (max. rating)	11 W or less		12 W or less
Physical environment	Ambient temperature	0 to 50°C*2		
	Ambient humidity	85% RH or less (without dew condensation)*2		
	Contamination level	2		
	Operation altitude	2,000 m or less		
	Atmosphere	No exposure to corrosive gas or conductive dust		
	Ambient storage temperature	-10 to 60°C*2		
	Ambient storage humidity	85% RH or less (without dew condensation)*2		
Installation conditions	Protective structure	Panel front	IP65 equivalent (when using waterproof gasket*3)/IP40 equivalent (when not using a waterproof gasket*3)	
		Rear case	IP20 equivalent	
	Dimensions W×H×D		198.8 × 141.8 × 38.0 mm	266.8 × 206.8 × 38.0 mm
	Panel cutout		189.0 × 134.0 (+0.5/-0) mm	257.0 × 199.0 (+0.5/-0) mm
Case color		Black		

*1 187,500 bps is only for Siemens MPI/PPi communications. *2 Use at a wet-bulb temperature of 39°C or less because higher temperatures may cause failure. *3 This is an optional accessory.

Lineup of Usability Enhancing Features

01 8-Way Communication

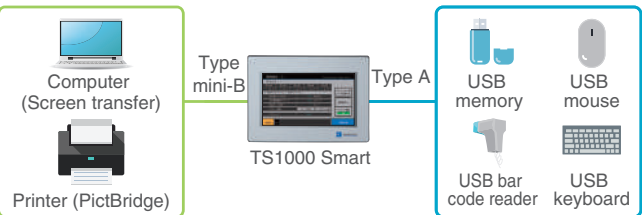
Connect up to eight types of PLC or other devices of various models from multiple manufactures at the same time via both an Ethernet and serial connection.



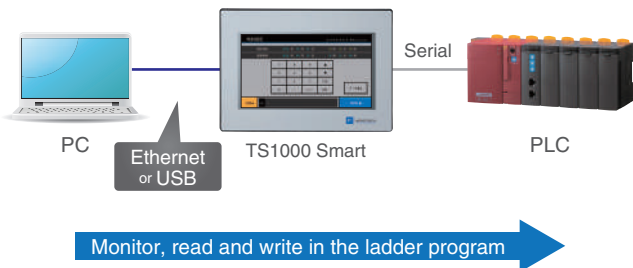
* With TS1070S, up to 3 models can be connected.

02 Expanded Connectivity

- USB port (USB Ver. 2.0 compatible)
USB port is built-in standard. Use the Type A and Type mini-B to connect to a wide range of devices.



- Ladder transfer
Monitor, read and write in the ladder program by computer via TS1000 Smart.
Choose from either Ethernet or USB to connect between the computer and TS1000 Smart.

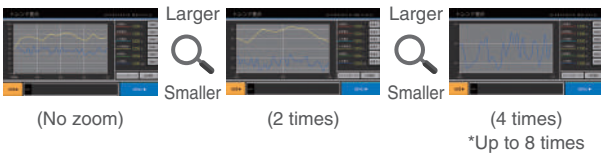


03 Trend Sampling

TS1000 Smart series chronologically records a broad-range of data that changes over time to display as trend graphs.

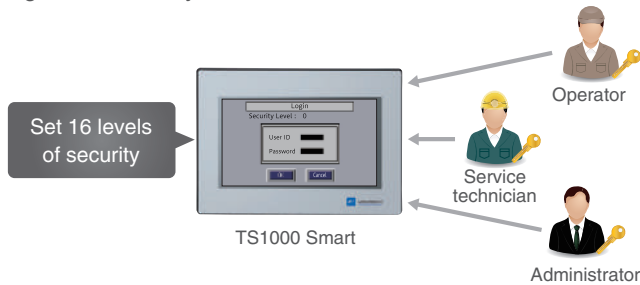
- Enlarged Display Support

Enlarge the display for a particular area of the screen to verify changing waveforms of trend graphs in even more detail.



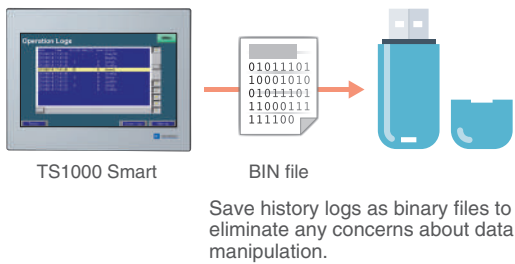
04 Security Features

Restrict functions according to the user to configure a high-level security environment.



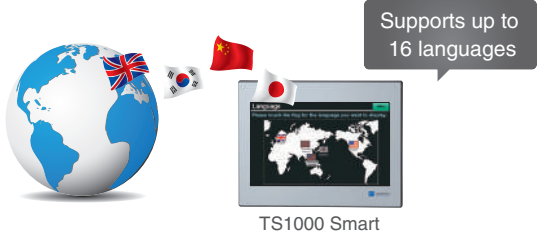
05 Operation Log

Record chronological on-screen input, from switch operations to numerical inputs. Combine the operation log with security features and review attribution information to assist in identifying the cause of errors as well as aid in other diagnostics.



06 Multilanguage

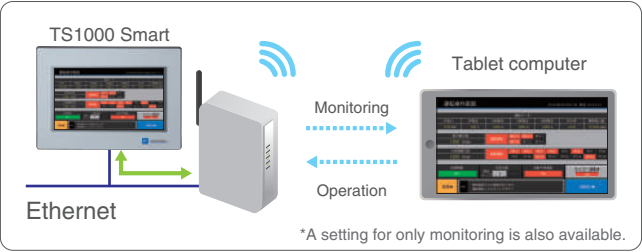
Easily toggle between up to 16 on-screen languages from a single screen to eliminate the need to sort and manage files for each language.



Compatible fonts:
Japanese, English/Western Europe, Chinese (Traditional), Chinese (Simplified), Korean, central European alphabets, Cyrillic alphabets, Greek, Turkish, and Baltic alphabets

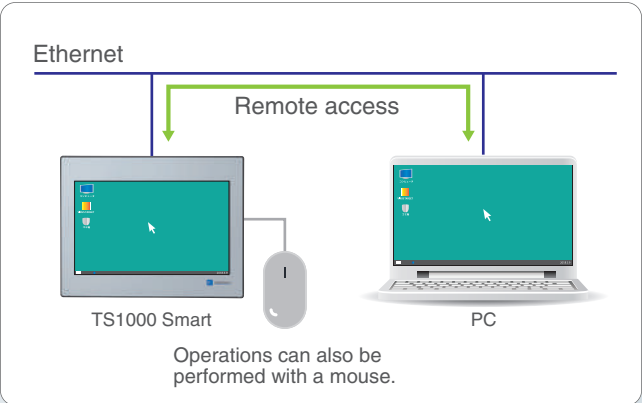
01 VNC Server

Easily setup the VNC viewer tool on a computer to monitor and operate TS1000 Smart screens on the factory floor via the same computer over Ethernet connection. In addition, monitoring and operations can be easily conducted from a tablet device over wireless router.



02 Remote Desktop*

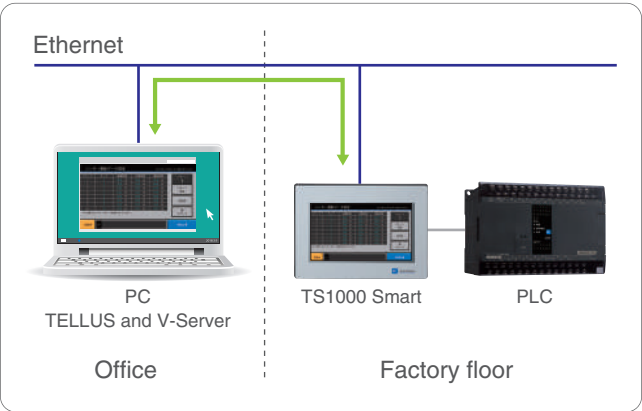
Connect via Ethernet to display and operate the server directly using TS1000 Smart.



*A license for V-RemoteDT (usage license) is required.

03 Remote Maintenance

Use the TELLUS application software to easily monitor and operate TS1000 Smart screen and PLC information remotely at low cost.



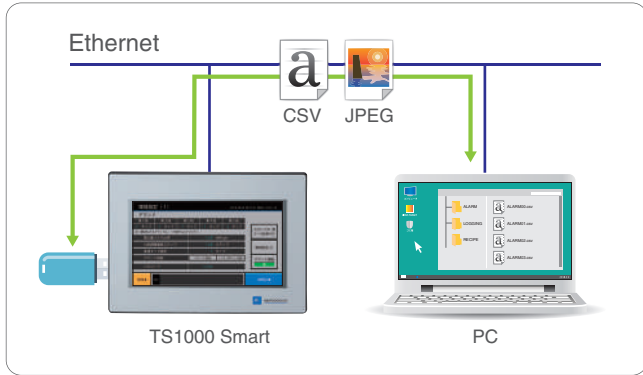
A Wealth of Network Features to Connect via Ethernet

*None of the features on this page are included with TS1070S.



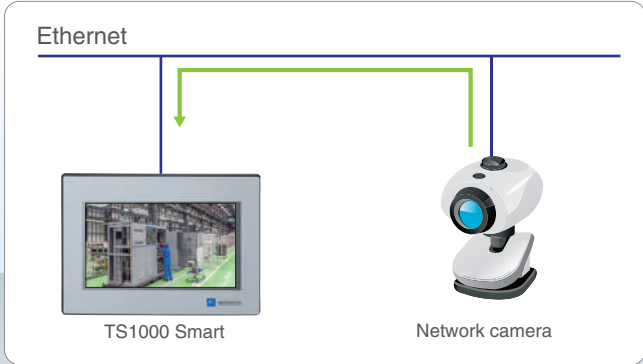
04 FTP Server

Use FTP client tools on a computer to read and write to USB memory mounted on TS1000 Smart.



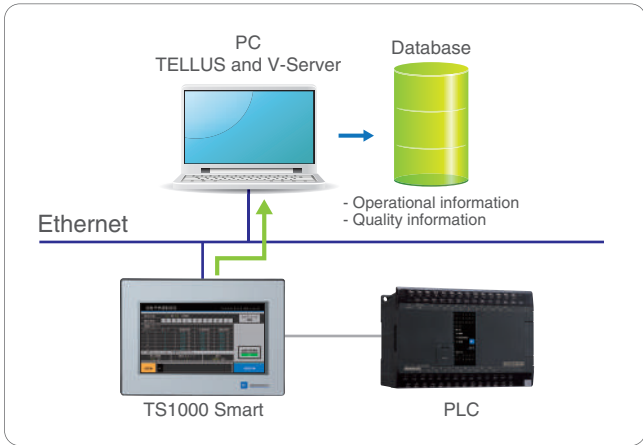
05 Network Camera

Display video from a network camera connected via Ethernet with TS1000 Smart. TS1000 Smart can also monitor factory floors.



06 MES (Manufacturing Execution System)

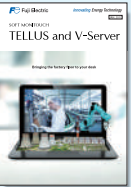
Collect broad information to store in the server database from production performance to defects and the causes of stoppages with TS1000 Smart through the V-Server.



Application software to connect offices and factory floors at minimal cost

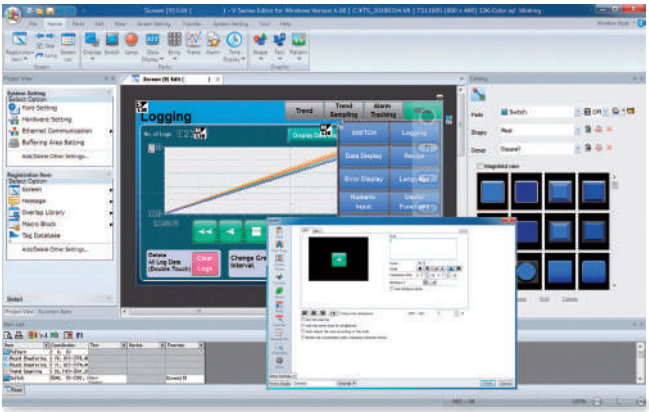
TELLUS and V-Server

The VNC server feature is a remote monitoring and management system able to collect real-time information about factory floors, including data aggregation and data management, via the Internet whether at the office or from overseas.



Catalog No. 9022NE2

Achieve Sleeker Screens with Easy-to-Understand Operations



V-SFT Ver. 6

01 Sophisticated Line-up of Icons

V-SFT Ver. 6 offers a combination of real sign and plain icons that allow users to easily create more sophisticated screens than ever before.



Plain Icons

A wide range of icon designs have been newly added with a design that closely resembles smartphones and other familiar devices.



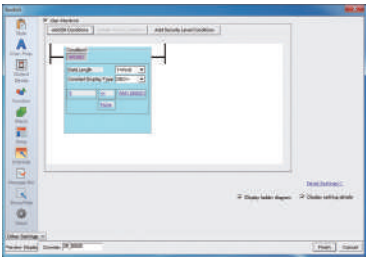
Real Icons

V-SFT expands conventional real icons even further.



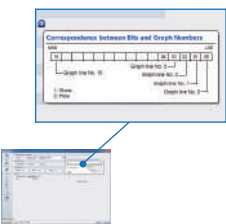
02 Expands Interlock Settings

Set the interlock via the ladder diagram display. The condition settings are easy to understand and convenient even when setting multiple conditions.



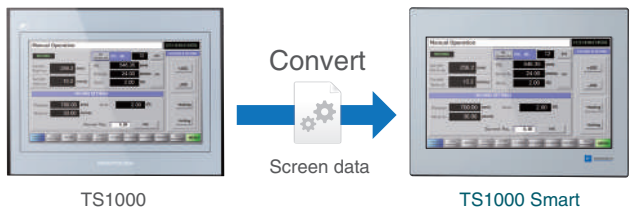
03 Supports Configuration with Tool Hints

Comprehensive tool hints throughout the software support the programming of applications. Easily configure settings without a manual by simply moving the mouse close to a setting to automatically display a supplementary description.



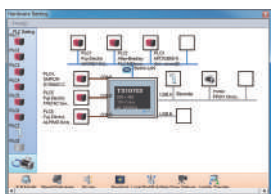
04 Supports Conversion from TS1000 Series

Screen data from previous models created in older versions of V-SFT can be converted in its present form to data for the current model. This allows users to leverage their screen data assets from previous models.



05 Intuitively Capture the Connection Device Configuration

The visual representation of the hardware settings make clear which devices are connected to TS1000 Smart.



Computer	PC/AT compatible computer running Windows
Operating system*	Windows XP/XP 64Edition/Windows Vista (32bit, 64bit)/Windows 7 (32bit, 64bit)/Windows 8 (32bit, 64bit)/Windows 8.1 (32bit, 64bit)/Windows 10 (32bit, 64bit)
CPU	Pentium 4 2.0 GHz or higher is recommended
Memory	2.0 GB or higher
Hard disc	When installed: 2.0 GB or higher
Disc device	DVD-ROM drive
Display	1,024 x 768 (XGA) resolution or higher
Display colors	High color (16 bits) or higher
Other	Microsoft .NET Framework 4.0 or 4.5 (Microsoft .NET Framework 4.0 is installed automatically on computers that do not have either Microsoft .NET Framework 4.0 or 4.5 installed.)

*Administrator privileges are required for installation.

Motion System Driving the Best Performance Together with TS1000 Smart Series

Programmable Controller **MICREX-SX Series**

SPF

Achieves excellent cost performance
Flexibly supports machine based systems

- ◆ High-speed, high-functioning computing performance
- ◆ Variety of options for flexible applications
- ◆ 200kHz, compatible with up to 4-axis servo systems



Catalog No. 22B1-E-0019



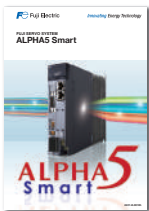
MICREX-SX SPF Plus provides advanced motion control, such as synchronous and circular interpolation controls.

Fuji Servo System

ALPHA5 Smart

Servo System with Enhanced Ease-of-Use

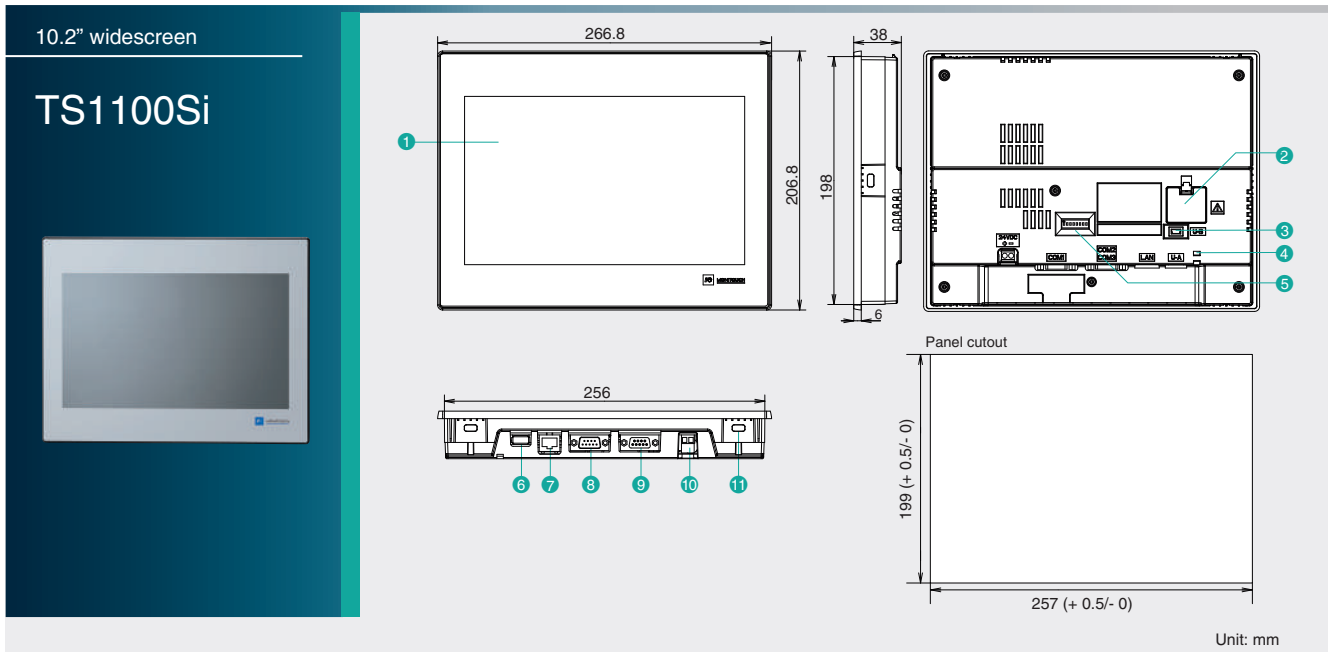
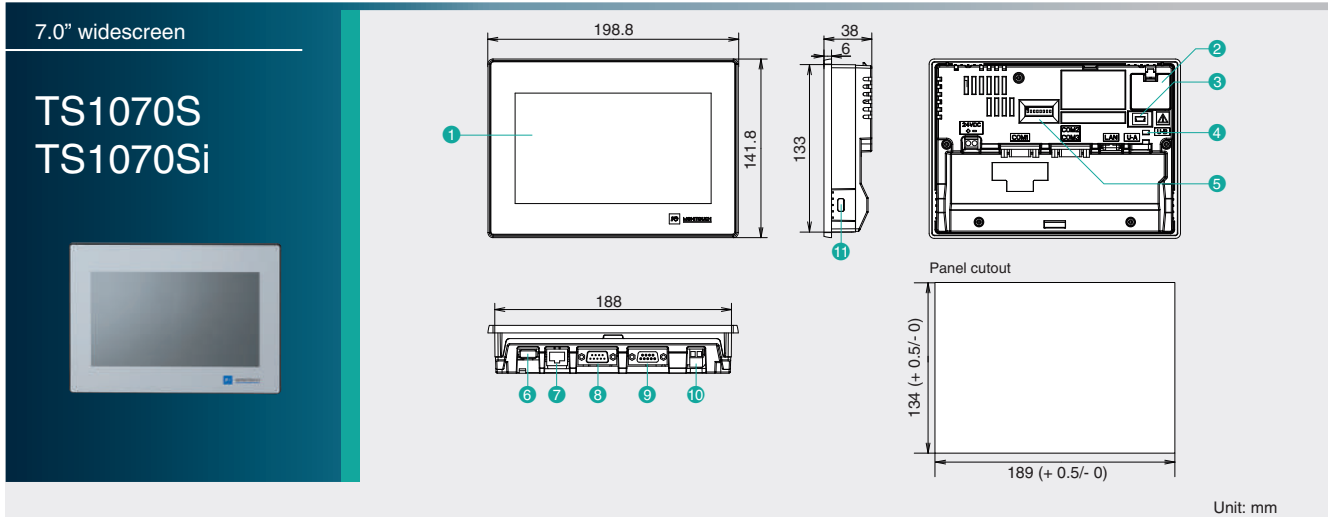
- ◆ High-speed, high precision positioning
 - Frequency response 1500Hz
 - Max motor speed 6000r/min
 - High resolution encoder
 - 18bit ABS/INC 262,144 pulse
 - 20bit INC 1,048,576 pulse
- ◆ Higher cost performance with original main feature
- ◆ New servo operator offers improved usability



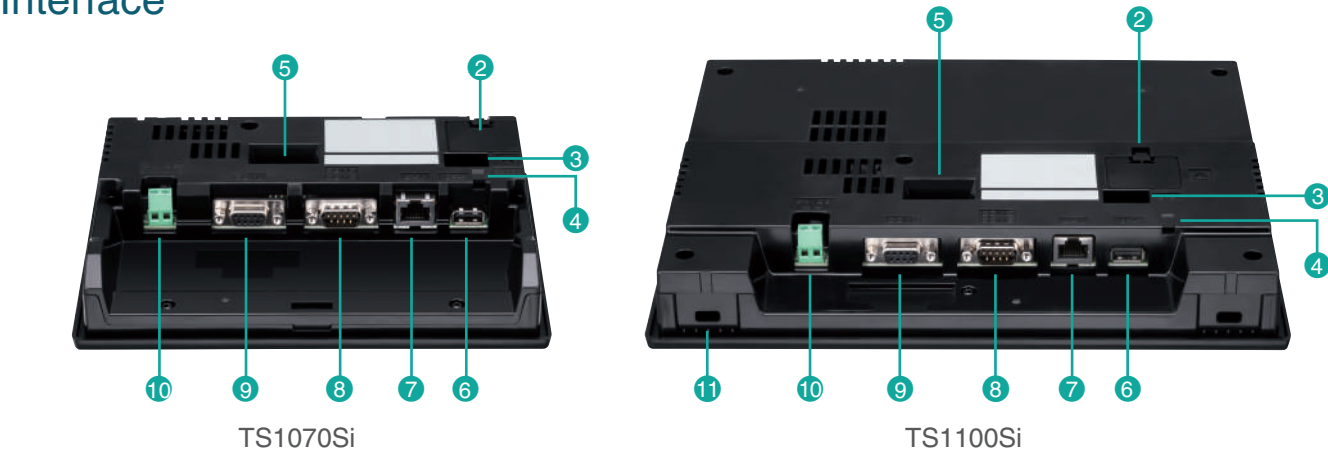
Catalog No. 24C1-E-0010



Dimensions



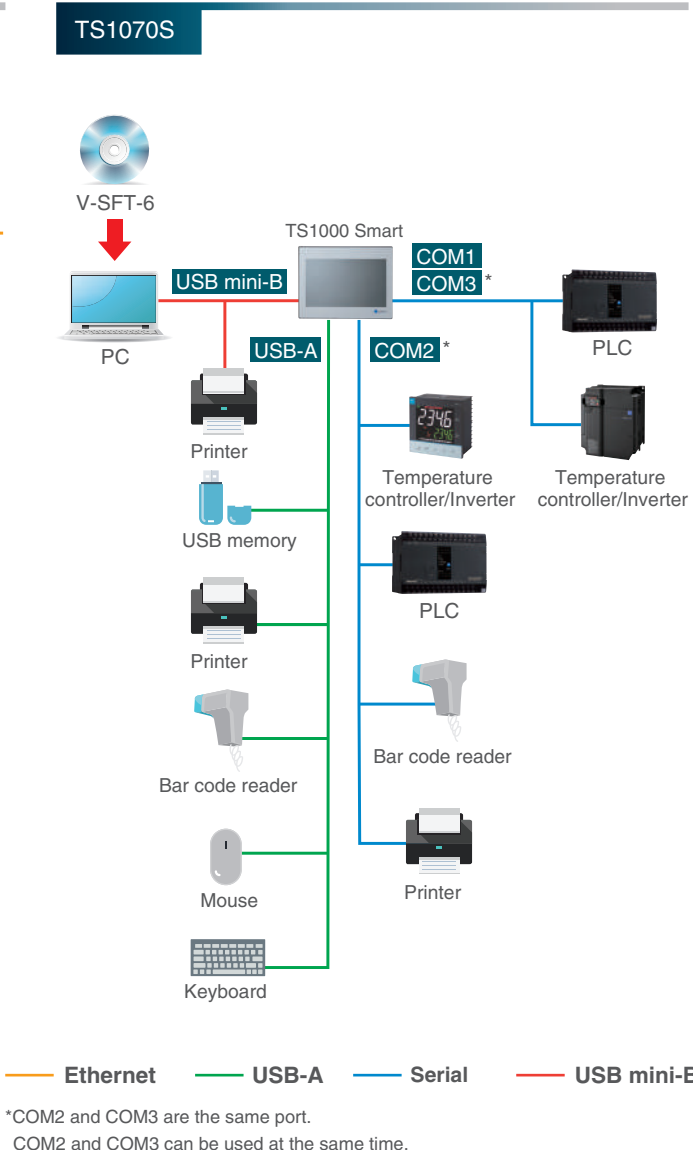
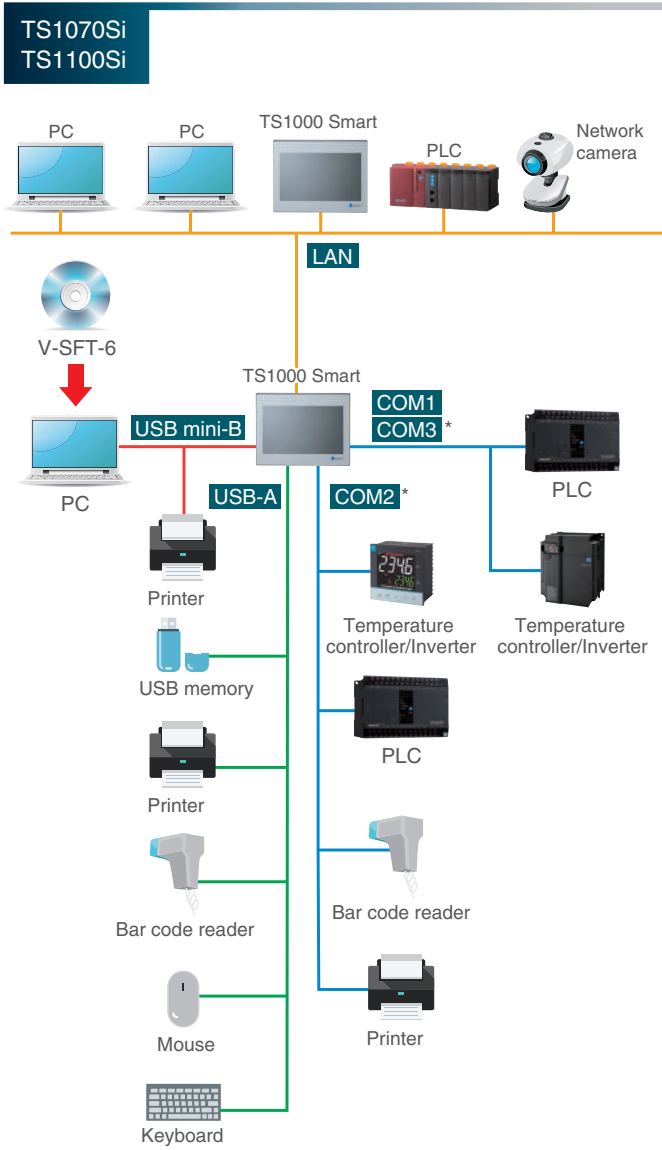
Interface



- 1 Display
 - 2 Battery compartment
 - 3 USB mini-B (U-B)
 - 4 USB cable retention
 - 5 DIP switch
 - 6 USB-A (U-A)
 - 7 100BASE-TX/10BASE-T connector (LAN)
- *Only TS1070Si/TS1100Si

- 8 RS-232C/RS-422/RS-485 connector (COM2/COM3)
- 9 RS-422/RS-485 connector (COM1)
- 10 Power input terminal block
- 11 Mounting point

System Configuration



*COM2 and COM3 are the same port.
COM2 and COM3 can be used at the same time.

Optional Accessories

Terminal Converter TC-D9

Use the terminal converter if the communication device is connected with TS1000 Smart series via the RS-422/485 block. (COM1)



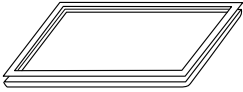
Cable for USB-A Port UA-FR

The cable is used when connecting the USB-A (sleeve) port via the board. (Cable length: 1 m)



Waterproof Gasket TS1070S-WP/TS1100S-WP

Use the waterproof gasket if an IP65 protective structure is necessary. This gasket can be used regardless of the Ethernet connection.



Connection Device List (PLC)

Manufacturer	Models
Fuji Electric	MICREX-F series
	MICREX-F series V4-compatible
	SPB (N mode) & FLEX-PC series
	SPB (N mode) & FLEX-PC CPU
	MICREX-SX SPH/SPB/SPM/SPE/SPF series
Allen-Bradley	MICREX-SX SPH/SPB/SPM/SPE/SPF CPU
	MICREX-SX (Ethernet)
	PLC-5
	PLC-5 (Ethernet)
	SLC500
	SLC500 (Ethernet TCP/IP)
	NET-ENI (SLC500 Ethernet TCP/IP)
	NET-ENI (MicroLogix Ethernet TCP/IP)
	MicroLogix
	MicroLogix (Ethernet TCP/IP)
Automationdirect	ControlLogix / CompactLogix
	ControlLogix (Ethernet)
	Micro800 Controllers
	Micro800 Controllers (Ethernet TCP/IP)
	Direct LOGIC (K-Sequence)
Azbil	Direct LOGIC (Ethernet UDP/IP)
	Direct LOGIC (MODBUS RTU)
	MX series
CIMON	BMx-x-PLC
	ADS protocol (Ethernet)
	BP series
DELTA	CP series
	S series
	S series (Ethernet)
EATON Cutler-Hammer	DVP series
	DVP series (MODBUS ASCII)
	DVP series (MODBUS TCP/IP)
EMERSON	ELC
	EC10/20/20H (MODBUS RTU)
	Power Mate
FANUC	FACON FB series
	FEC
	APC series Controller
GE Fanuc	90 series
	90 series (SNP-X)
	90 series (SNP)
Hitachi	90 series (Ethernet TCP/IP)
	RX3i (Ethernet TCP/IP)
	HIDIC-S10/2a,S10mini
Hitachi Industrial Equipment Systems	HIDIC-S10/2a,S10mini (Ethernet)
	HIDIC-S10/4a
	HIDIC-S10V
HYUNDAI	HIDIC-S10V (Ethernet)
	HIDIC-H
	HIDIC-H (Ethernet)
IDEC	HIDIC-EHV
	HIDIC-EHV (Ethernet)
	HIS Robot (MODBUS RTU)
Jetter	Hi4 Robot (MODBUS RTU)
	MICRO 3
	MICRO Smart
JTEKT	MICRO Smart pentra
	JetControl series2/3 (Ethernet UDP/IP)
	TOYOPUC
KEYENCE	TOYOPUC (Ethernet)
	TOYOPUC (Ethernet PC10 mode)
	TOYOPUC-Plus
KOYO ELECTRONICS	TOYOPUC-Plus (Ethernet)
	TOYOPUC-Nano (Ethernet)
	KZ series Link
LS	KZ-A500 CPU
	KZ/KV series CPU
	KZ24/300 CPU
MITSUBISHI ELECTRIC	KV10/24 CPU
	KV-700
	KV-700 (Ethernet TCP/IP)
None	KV-1000
	KV-1000 (Ethernet TCP/IP)
	KV-3000/5000
Panasonic	KV-3000/5000 (Ethernet TCP/IP)
	SU/SG
	SR-T (K protocol)
SAMSUNG	SU/SG (K-Sequence)
	SU/SG (MODBUS RTU)
	MASTER-KxxxS
SHARP	MASTER-KxxxS CNET
	MASTER-K series(Ethernet)
	GLOFA CNET
SIEMENS	GLOFA GM7 CNET
	GLOFA GM series CPU
	GLOFA GM series (Ethernet UDP/IP)
TOSHIBA	XGT/XGK series CNET
	XGT/XGK series CPU
	XGT/XGK series (Ethernet)
YASKAWA	XGT/XGI series CNET
	XGT/XGI series CPU
	XGT/XGI series (Ethernet)
Yokogawa Electric	A series link
	QnA series link
	QnA series (Ethernet)
None	QnH (Q) series link
	QnH (Q) series CPU
	QnU series CPU
OMRON	Q00J/00/01 CPU
	QnH (Q) series (Ethernet)
	QnH (Q) series link (multi CPU)
FUJIFILM	QnH (Q) series (multi CPU) (Ethernet)
	QnH (Q) series CPU (multi CPU)
	QnH (Q) series (Ethernet ASCII)
MITSUBISHI ELECTRIC	QnH (Q) series (multi CPU) (Ethernet ASCII)
	QnU series (built-in Ethernet)
	L series link
None	L series (built-in Ethernet)
	L series CPU
	FX2N/1N series CPU
None	FX1S series CPU
	FX series link (A protocol)

As of April 2018

Manufacturer	Models
MITSUBISHI ELECTRIC	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
	Q170MPCPU (multi CPU)
	Q170 series (multi CPU) (Ethernet)
	iQ-R series (Built-in Ethernet)
	iQ-R series link
MODICON	iQ-R series (Ethernet)
	MODBUS RTU
MOELLER	PS4
	SYSMAC C
OMRON	SYSMAC CV
	SYSMAC CS1/CJ1
	SYSMAC CS1/CJ1 DNA
	SYSMAC CS1/CJ1 (Ethernet)
	SYSMAC CS1/CJ1 (Ethernet Auto)
	SYSMAC CS1/CJ1 DNA (Ethernet)
	NJ Series (EtherNet/IP)
	FP series (RS232C/422)
	FP series (TCP/IP)
	FP series (UDP/IP)
Panasonic	FP-X (TCP/IP)
	FP7 series (RS232C/422)
	FP7 series (Ethernet)
RS Automation	NX7/NX Plus series (70P/700P/CCU+)
	N7/NX series (70/700/750/CCU)
	NX700 series (Ethernet)
SAIA	X8 series
	X8 series (Ethernet)
SAMSUNG	PCD
	PCD S-BUS (Ethernet)
	SPC series
SHARP	N plus
	SECNET
	JW series
Siemens	JW100/70H COM port
	JW20 COM port
	JW series (Ethernet)
TOSHIBA	JW300 series
	JW311/312/321/322 series (Ethernet)
	JW331/332/341/342/352/362 series (Ethernet)
TOSHIBA MACHINE	S5 PG port
	S7
	S7-200 PPI
TOYO DENKI	S7-200 (Ethernet ISOTCP)
	S7-300/400 MPI
	S7-300/400 (Ethernet ISOTCP)
Turck	S7-300/400 (Ethernet TCP/IP protocol)
	S7-1200/1500 (Ethernet ISOTCP)
	TI500/505
Ultra Instruments	TI500/505 V4 Compatible
	SELMART
	TP-03 (MODBUS RTU)
UNITRONICS	TSX Micro
	T series /V series (T compatible)
	T series /V series (T compatible) (Ethernet UDP/IP)
VIGOR	EX series
	nv series (Ethernet UDP/IP)
	TC200
WAGO	μ GPCsx series
	μ GPCsx CPU
	μ GPCsx series (Ethernet)
XINJE	BL series Distributed I/O (MODBUS TCP/IP)
	UIC CPU (MODBUS ASCII)
	M90/M91/Vision series (ASCII)
Yaskawa Electric	Vision series (ASCII Ethernet TCP/IP)
	M series
	750 series (MODBUS RTU)
Yokogawa Electric	750 series (MODBUS Ethernet)
	XC series (MODBUS RTU)
	Memobus
None	CP9200SH/MP900
	MP2300 (MODBUS TCP/IP)
	CP/MP expansion memobus (UDP/IP)
Yokogawa Electric	MP2000 series
	MP2000 series (UDP/IP)
	MP3000 series
Yokogawa Electric	MP3000 series (Ethernet UDP/IP)
	MP3000 series expansion memobus (Ethernet)
	FA-M3
Yokogawa Electric	FA-M3R
	FA-M3/FA-M3R (Ethernet UDP/IP)
	FA-M3/FA-M3R (Ethernet UDP/IP ASCII)
Yokogawa Electric	FA-M3/FA-M3R (Ethernet TCP/IP)
	FA-M3/FA-M3R (Ethernet TCP/IP ASCII)
	FA-M3V
Yokogawa Electric	FA-M3V (Ethernet)
	FA-M3V (Ethernet ASCII)
	Universal serial
None	Without PLC Connection
	MODBUS RTU
	MODBUS RTU EXT Format
None	MODBUS TCP/IP (Ethernet)
	MODBUS TCP/IP (Ethernet) Sub Station
	MODBUS TCP/IP (Ethernet) EXT Format
None	MODBUS ASCII

Connection Device List (Temperature Controller/Servo/Inverter)

Manufacturer	Models
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-Eco (MODBUS RTU)
	FRENIC-HVAC/AQUA (MODBUS RTU)
	FRENIC-MEGA (MODBUS RTU)
	FRENIC-MEGA SERVO (MODBUS RTU)
	FRENIC-Mini (MODBUS RTU)
	FRENIC-Multi (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)
	WAS000
	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)
Agilent	4263 series
	Stepping Motor
	SDC10
ASAHI ENGINEERING	SDC15
	SDC20
	SDC21
Azbil	SDC25/26
	SDC30/31
	SDC35/36
Azbil	SDC45/46
	SDC40A
	SDC40G
Azbil	DMC10
	DMC50 (COM)
	AHC2001
A&D	AHC2001+DCP31/32
	DCP31/32
	NX (CPL)
Banner	NX (MODBUS RTU)
	NX (MODBUS TCP/IP)
	AD4402 (MODBUS RTU)
Bosh Rexroth	AD4404 (MODBUS RTU)
	Presence PLUS (Ethernet/IP (TCP/IP))
	Indra Drive
CHINO	LT400 series (MODBUS RTU)
	DP1000
	DB1000B (MODBUS RTU)
CHINO	KR2000 (MODBUS RTU)
	LT230 (MODBUS RTU)
	LT300 (MODBUS RTU)
DELTA TAU DATA SYSTEMS	LT830 (MODBUS RTU)
	PMAC
	PMAC (Ethernet TCP/IP)
Gammaflux	TTC2100
	R-BLT
Hitachi Industrial Equipment Systems	SJ300 series
	SJ700 series
	X-SEL controller
IAI	ROBO CYLINDER (RCP2/ERC)
	ROBO CYLINDER (RCS/E-CON)
	PCON/ACON/SCON (MODBUS RTU)
KOGANEI	IBFL-TC
	Servo Drive 9400 (Ethernet TCP/IP)
	FR-*500
Lenze	FR-V500
	MR-J2S-*A
	MR-J2S-*CL
MITSUBISHI ELECTRIC	MR-J3-*A
	MR-J3-*T
	MR-J4-*A
MOOG	FR-E700
	J124-04x series
	R1M series (MODBUS RTU)
M-SYSTEM	E5AK
	E5AK-T
	E5AN/E5EN/E5CN/E5GN
OMRON	E5AR/E5ER
	E5CK
	E5CK-T
OMRON	E5CN-HT
	E5EK
	E5ZD
OMRON	E5ZE
	E5ZN
	V600/620/680
Oriental Motor	KM20
	KM100
	V680S (Ethernet TCP/IP)
Panasonic	High-efficiency AR series (MODBUS RTU)
	CRK series (MODBUS RTU)
	LP-400
Panasonic	KW series

As of April 2018

Manufacturer	Models
Panasonic	MINAS A4 series
	SR-Mini (MODBUS RTU)
	CB100/CB400/CB500/CB700/CB900 (MODBUS RTU)
RKC	SR-Mini (Standard Protocol)
	REX-F400/F700/F900 (Standard Protocol)
	REX-F9000 (Standard Protocol)
RS Automation	SRV (MODBUS RTU)
	MA900/MA901 (MODBUS RTU)
	SRZ (MODBUS RTU)
SANMEI	FB100/FB400/FB900 (MODBUS RTU)
	CSD5 (MODBUS RTU)
	Moscon-F50 (MODBUS RTU)
SanRex	Cuty Axis
	DC AUTO (HKD type)
	DS-30D
SHARP	DS-32D
	SHIMADEN standard protocol
SHIMADEN	C series
	FC series
	GC series
SHINKO TECHNOS	DCL-33A
	JCx-300 series
	PC-900
Siemens	PCD-33A
	ACS-13A
	ACD/ACR series
Siemens	WCL-13A
	S120 (Ethernet ISOTCP)
	XA-A*
SUS	TTM-000
	TTM-00BT
	TTM-200 (MODBUS RTU)
TOHO	MB3315/1010
	VF-S7
Tokyo Chokoku Marking Products	VF-S9
	VF-S11
	VF-S15
TOSHIBA	VF-A7
	VF-AS1
	VF-P7
TOSHIBA MACHINE	VF-PS1
	VF-FS1
	VF-MB1
ULVAC	VF-nC1
	VF-nC3
	VELCONIC series
UNIPULSE	G-TRAN series
	F340A
	F371
YAMAHA	F800
	F720A
	F805A
Yaskawa Electric	RCX142
	DX200 (High-Speed Ethernet)
	UT100
Yokogawa Electric	UT750
	UT550
	UT520
Yokogawa Electric	UT350
	UT320
	UT2400/2800
Yokogawa Electric	UT450
	UT32A/35A (MODBUS RTU)
	UT52A/55A (MODBUS RTU)
Yokogawa Electric	UT75A (MODBUS RTU)
	μ R10000/20000 (Ethernet TCP/IP)
	MODBUS RTU
None	MODBUS TCP/IP (Ethernet)

*The names of the companies and products included in this document are the trademarks or registered trademarks of their respective companies.
*TS1070S does not support an Ethernet connection.



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.
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