

Programmable Operator Interface

MONITOUCH

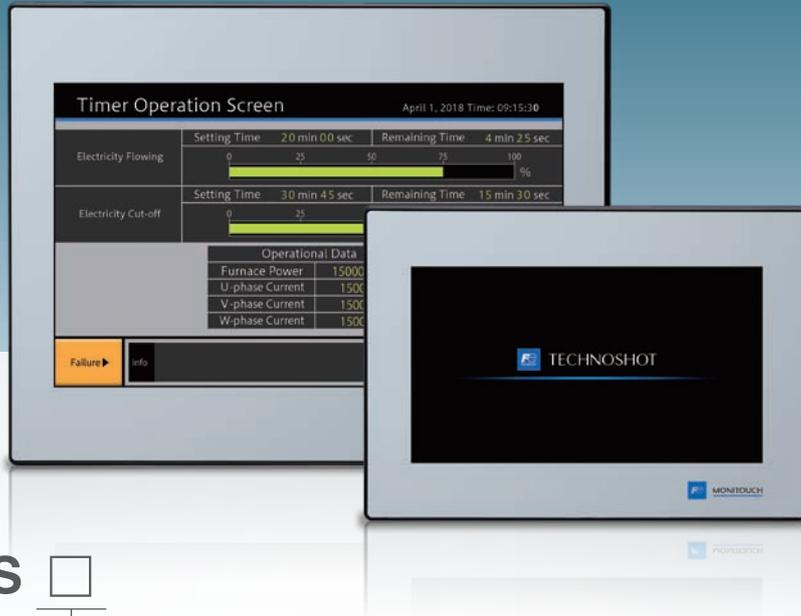
Consolidating Essential Functionality
while Enhancing Operability and Visibility



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



TS1100Si

TS1070S
TS1070Si

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



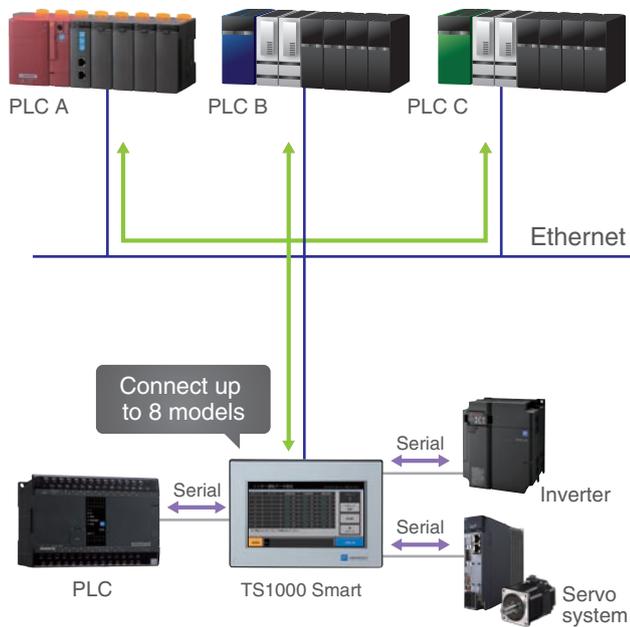
Item	TS1070S	TS1070Si	TS1100Si	
Main unit	Screen size		7.0" widescreen	
	Display device		TFT color	
	Resolution		800 × 480 dots	
	Colors		65,536 colors	
	Backlight		LED	
	Touch screen		Analog resistive	
	Certifications		CE/KC/UL/cUL	
User memory	FROM		26MB	
	SRAM		128KB	
External interface	COM1 D-Sub9 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 WxHxD		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

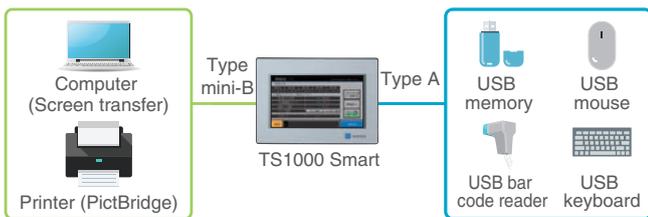
Connect up to eight types of PLC or other devices of various models from multiple manufactures at the same time via both an Ethernet and serial connection.



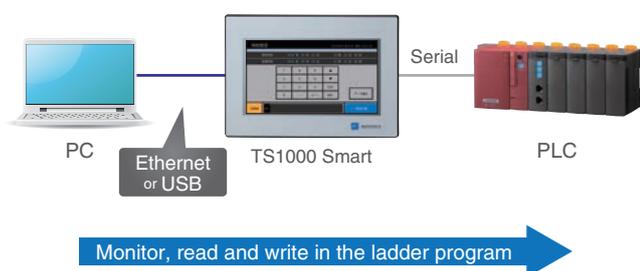
* With TS1070S, up to 3 models can be connected.

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.

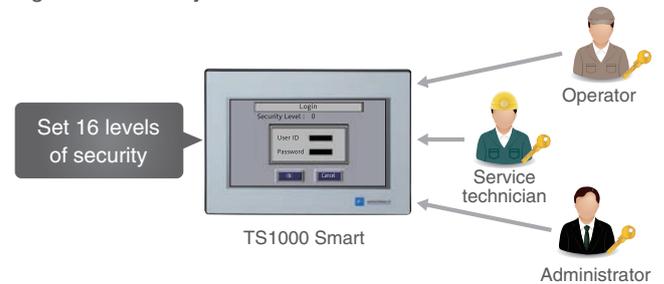
- Enlarged Display Support

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



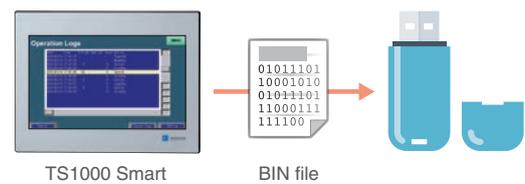
04 Security Features

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.



Save history logs as binary files to eliminate any concerns about data manipulation.

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.

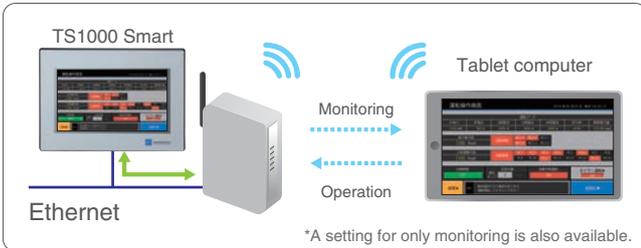


Compatible fonts:
Japanese, English/Western Europe, Chinese (Traditional), Chinese (Simplified), Korean, central European alphabets, Cyrillic alphabets, Greek, Turkish, and Baltic alphabets

A Wealth of Network Features

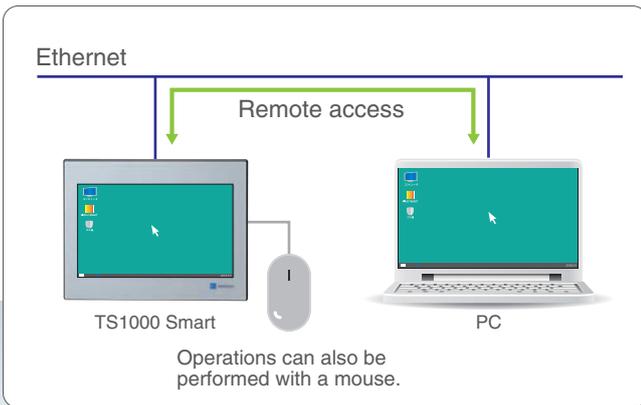
01 VNC Server

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*

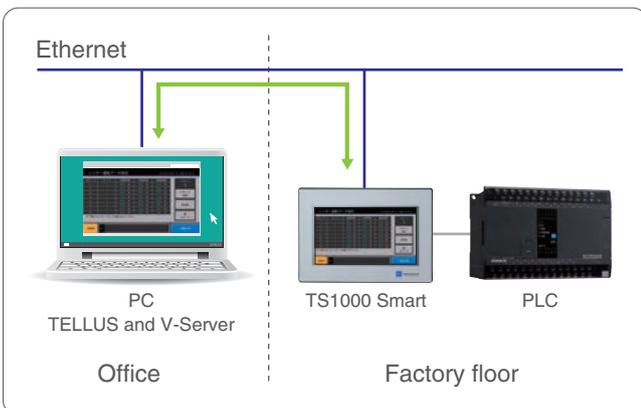
Connect via Ethernet to display and operate the server directly using TS1000 Smart.



*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.



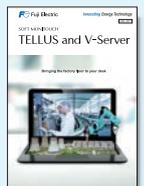
TS1070Si



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

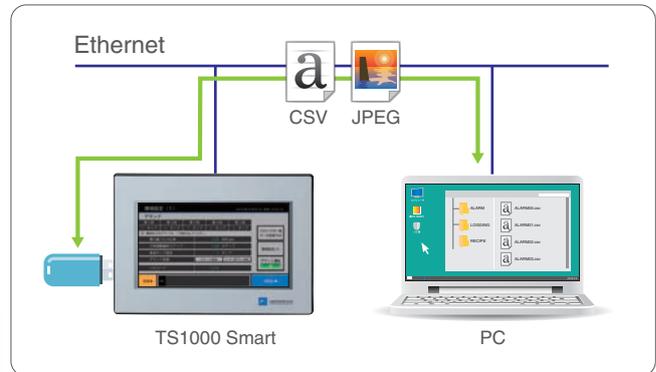
Ways to Connect via Ethernet

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



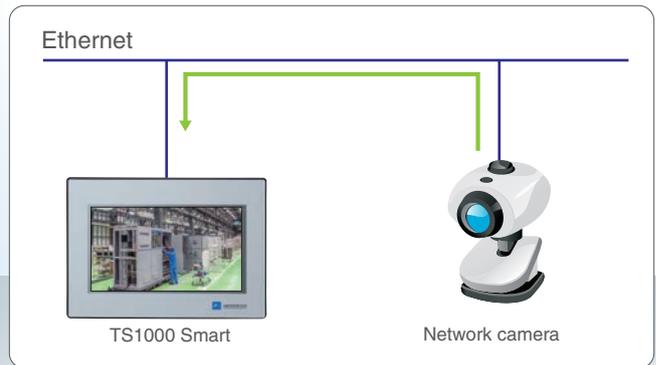
04 FTP Server

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



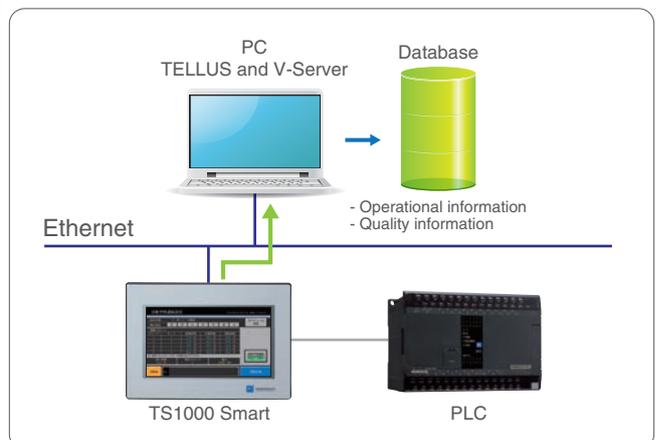
05 Network Camera

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.



Achieve Sleeker Screens with Easy-to-Understand Operations



V-SFT Ver. 6

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.

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.



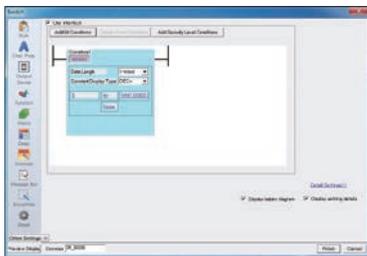
Real Icons

V-SFT expands conventional real icons even further.



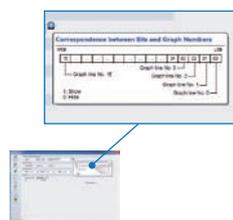
02 Expands Interlock Settings

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



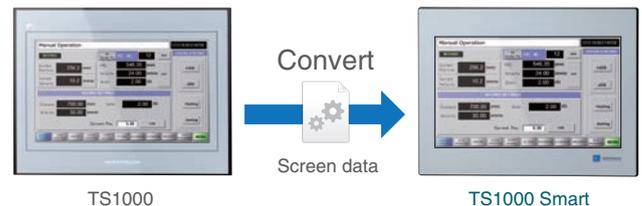
03 Supports Configuration with Tool Hints

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.



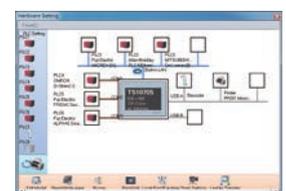
04 Supports Conversion from TS1000 Series

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.



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



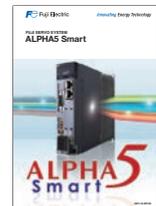
MICREX-SX SPF Plus provides advanced motion control, such as synchronous and circular interpolation controls.

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



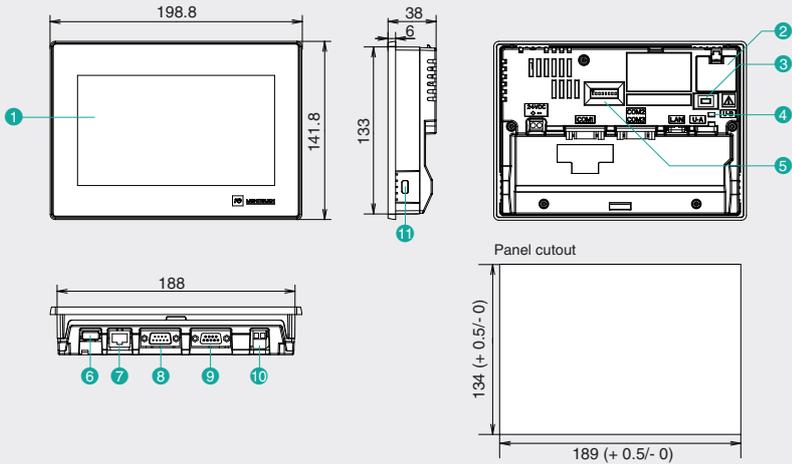
Catalog No. 24C1-E-0010



Dimensions

7.0" widescreen

TS1070S
TS1070Si

198.8

141.8

38

6

133

11

2

3

4

5

Panel cutout

189 (+ 0.5/- 0)

134 (+ 0.5/- 0)

188

6

7

8

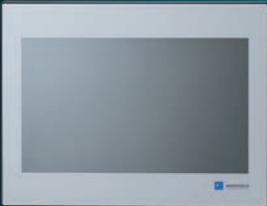
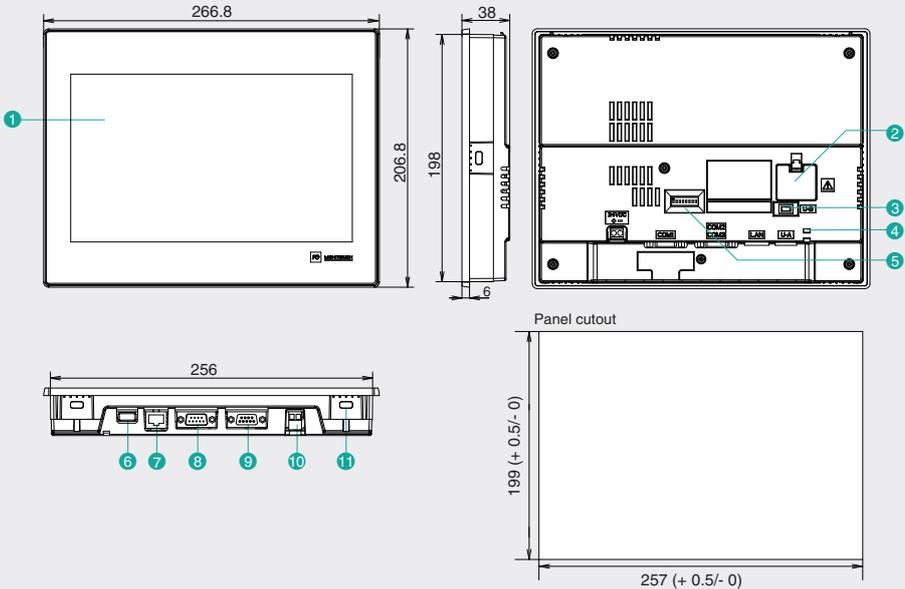
9

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Unit: mm

10.2" widescreen

TS1100Si

266.8

206.8

38

6

198

2

3

4

5

Panel cutout

257 (+ 0.5/- 0)

199 (+ 0.5/- 0)

256

6

7

8

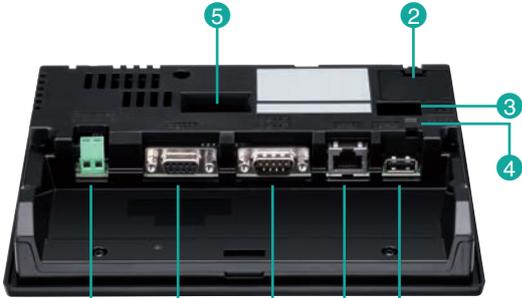
9

10

11

Unit: mm

Interface



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TS1070Si



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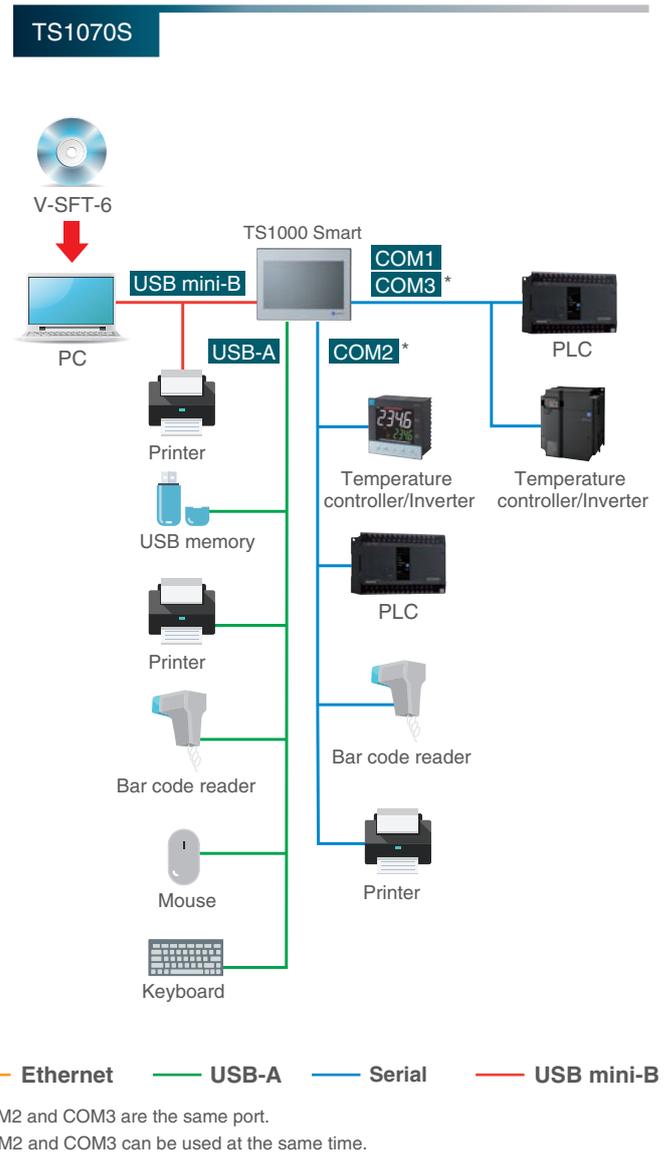
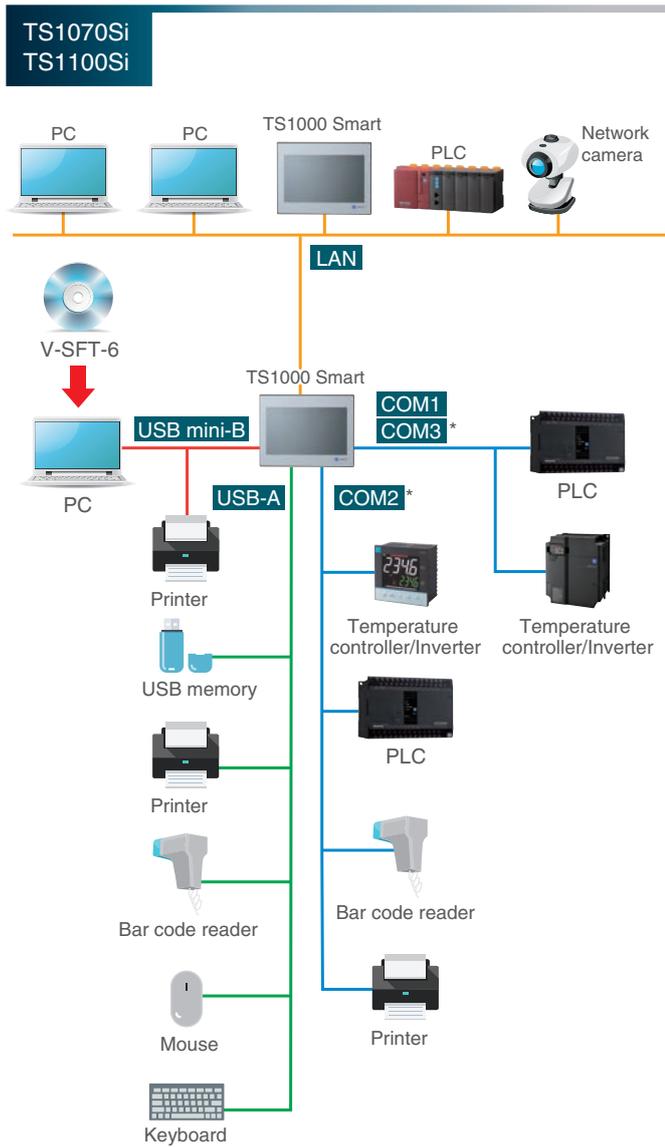
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11

TS1100Si

- 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



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)



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.



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)



Connection Device List (PLC)

As of April 2018

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
	MICREX-SX SPH/SPB/SPM/SPE/SPF CPU
Allen-Bradley	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)
	ControlLogix / CompactLogix
	ControlLogix (Ethernet)
	Micro800 Controllers
Automationdirect	Micro800 Controllers (Ethernet TCP/IP)
	Direct LOGIC (K-Sequence)
	Direct LOGIC (Ethernet UDP/IP)
Azbil	Direct LOGIC (MODBUS RTU)
	MX series
Baumuller	BMx-x-PLC
BECKHOFF	ADS protocol (Ethernet)
CIMON	BP series
	CP series
	S series
DELTA	S series (Ethernet)
	DVP series
	DVP series (MODBUS ASCII)
EATON Cutler-Hammer	DVP series (MODBUS TCP/IP)
	ELC
EMERSON	ECT10/20/20H (MODBUS RTU)
FANUC	Power Mate
Fatek Automation	FACON FB series
FESTO	FEC
FUFENG	APC series Controller
GE Fanuc	90 series
	90 series (SNP-X)
	90 series (SNP)
	90 series (Ethernet TCP/IP)
	RX3i (Ethernet TCP/IP)
Hitachi	HIDIC-S10/2a,S10mini
	HIDIC-S10/2a,S10mini (Ethernet)
	HIDIC-S10/4a
	HIDIC-S10V
Hitachi Industrial Equipment Systems	HIDIC-S10V (Ethernet)
	HIDIC-H
	HIDIC-H (Ethernet)
	HIDIC-EHV
	HIDIC-EHV (Ethernet)
HYUNDAI	Hi5 Robot (MODBUS RTU)
	Hi4 Robot (MODBUS RTU)
IDEC	MICRO 3
Jetter	MICRO Smart
	MICRO Smart pentra
JTEKT	JetControl series2/3 (Ethernet UDP/IP)
	TOYOPUC
	TOYOPUC (Ethernet)
	TOYOPUC (Ethernet PC10 mode)
	TOYOPUC-Plus
KEYENCE	TOYOPUC-Plus (Ethernet)
	TOYOPUC-Nano (Ethernet)
	KZ series Link
	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)	
KOYO ELECTRONICS	KV-3000/5000
	KV-3000/5000 (Ethernet TCP/IP)
	KV-7000 (Ethernet TCP/IP)
	SU/SG
	SR-T (K protocol)
LS	SU/SG (K-Sequence)
	SU/SG (MODBUS RTU)
	MASTER-Kxxx5
	MASTER-Kxxx5 CNET
	MASTER-K series (Ethernet)
	GLOFA CNET
	GLOFA GM7 CNET
	GLOFA GM series CPU
	GLOFA GM series (Ethernet UDP/IP)
	XGT/XGK series CNET
XGT/XGK series CPU	
MITSUBISHI ELECTRIC	XGT/XGK series (Ethernet)
	XGT/XGI series CNET
	XGT/XGI series CPU
	XGT/XGI series (Ethernet)
	A series link
	QnA series link
	QnA series (Ethernet)
	QnH (Q) series link
	QnH (Q) series CPU
	QnU series CPU
	Q00/00/01 CPU
	QnH (Q) series (Ethernet)
	QnH (Q) series link (multi CPU)
	QnH (Q) series (multi CPU) (Ethernet)
	QnH (Q) series CPU (multi CPU)
QnH (Q) series (Ethernet ASCII)	
QnH (Q) series (multi CPU) (Ethernet ASCII)	
QnU series (built-in Ethernet)	
L series link	
L series (built-in Ethernet)	
L series CPU	
FX2N/1N series CPU	
FX1S series CPU	
FX series link (A protocol)	

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
	Q170MCPU (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
OMRON	SYSMAC C
	SYSMAC CV
	SYSMAC CS1/CJ1
	SYSMAC CS1/CJ1 DNA
	SYSMAC CS1/CJ1 (Ethernet)
	SYSMAC CS1/CJ1 (Ethernet Auto)
	SYSMAC CS1/CJ1 DNA (Ethernet)
Panasonic	NJ Series (EtherNet/IP)
	FP series (RS232C/422)
	FP series (TCP/IP)
	FP series (UDP/IP)
	FP-X (TCP/IP)
RS Automation	FP7 series (RS232C/422)
	FP7 series (Ethernet)
	NX7/NX Plus series (70P/700P/CCU+)
SAIA	N7/NX series (70/700/750/CCU)
	NX700 series (Ethernet)
	X8 series
SAMSUNG	X8 series (Ethernet)
	PCD
SHARP	PCD S-BUS (Ethernet)
	SPC series
	N. plus
Siemens	SECNET
	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)
	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)	
T1500/505	
T1500/505 V4 Compatible	
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
TOSHIBA MACHINE	nv series (Ethernet UDP/IP)
	TC200
TOYO DENKI	μ GPCsx series
	μ GPCsx CPU
Turck	μ GPCsx series (Ethernet)
Ultra Instruments	BL series Distributed I/O (MODBUS TCP/IP)
UNITRONICS	UIC CPU (MODBUS ASCII)
	M90/M91/Vision series (ASCII)
VIGOR	Vision series (ASCII Ethernet TCP/IP)
WAGO	M series
	750 series (MODBUS RTU)
XINJE	750 series (MODBUS Ethernet)
	XC series (MODBUS RTU)
Yaskawa Electric	Memobus
	CP9200SH/MP900
	MP2300 (MODBUS TCP/IP)
	CP/MP expansion memobus (UDP/IP)
	MP2000 series
	MP2000 series (UDP/IP)
	MP3000 series
	MP3000 series (Ethernet UDP/IP)
	MP3000 series expansion memobus (Ethernet)
	FA-M3
FA-M3R	
Yokogawa Electric	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
None	FA-M3V (Ethernet)
	FA-M3V (Ethernet ASCII)
	Universal serial
	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

Connection Device List (Temperature Controller/Servo/Inverter)

As of April 2018

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)	
	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)	
	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)		
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	
Gammaflux	PMAC (Ethernet TCP/IP)	
High-Pressure Gas Industry	TTC2100	
Hitachi Industrial Equipment Systems	R-BLT	
IAI	SJ300 series	
	SJ700 series	
	X-SEL controller	
	ROBO CYLINDER (RCP2/ERC)	
ROBO CYLINDER (RCS/E-CON)		
KOGANEI	PCON/ACON/SCON (MODBUS RTU)	
Lenze	IBFL-TC	
MITSUBISHI ELECTRIC	Servo Drive 9400 (Ethernet TCP/IP)	
	FR-*500	
	FR-V500	
	MR-J2S-*A	
	MR-J2S-*CL	
	MR-J3-*A	
	MR-J3-*T	
	MR-J4-*A	
	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)	
Panasonic	LP-400	
	KW series	

Manufacturer	Models	
Panasonic	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)	
	CSD5 (MODBUS RTU)	
RS Automation	Moscon-F50 (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	
	F720A	
	F805A	
YAMAHA	RCX142	
Yaskawa Electric	DX200 (High-Speed Ethernet)	
Yokogawa Electric	UT100	
	UT750	
	UT550	
	UT520	
	UT350	
	UT320	
	UT2400/2800	
	UT450	
	UT32A/35A (MODBUS RTU)	
	UT52A/55A (MODBUS RTU)	
UT75A (MODBUS RTU)		
μ R10000/20000 (Ethernet TCP/IP)		
None	MODBUS RTU	
	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.
- For safe operation, wiring should be conducted only by qualified engineers who have sufficient technical knowledge about electrical work or wiring.

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