

Programmable Operator Interface

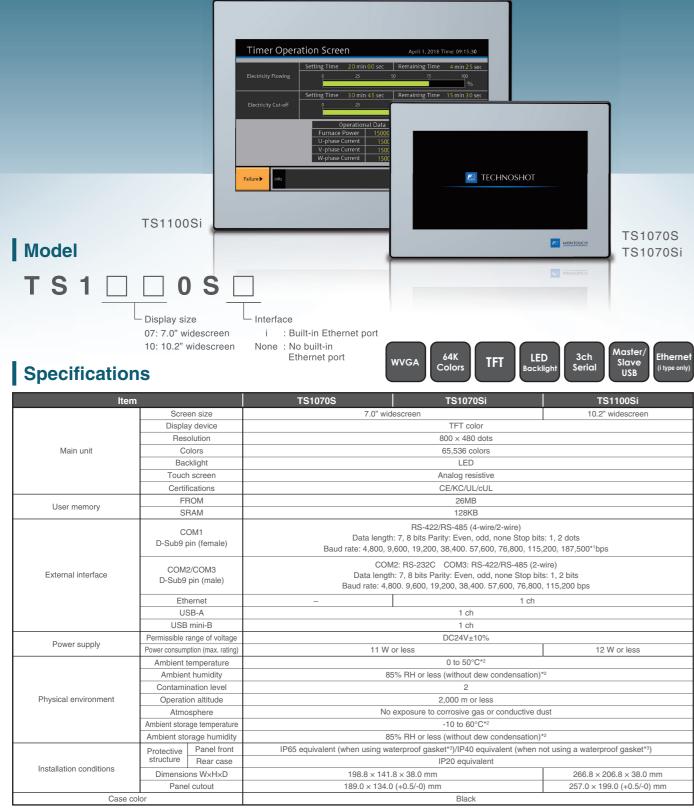
Consolidating Essential Functionality while Enhancing Operability and Visibility



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



*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

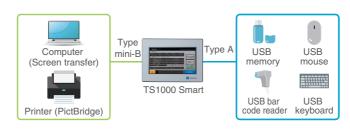
Connect up to eight types of PLC or other devices of various models from multiple manufactures at the same time via both an Ethernet and serial connection.



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

02 Expanded Connectivity

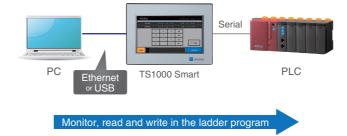
 USB port (USB Ver. 2.0 compatible) USB port is built-in standard. Use the Type A and Type mini-B to connect to a wide range of devices.



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.

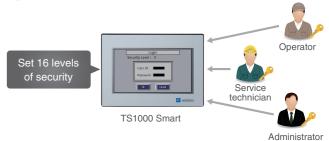
Enlarged Display Support

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

01 VNC Server

TS1000 Smart

Ethernet

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.

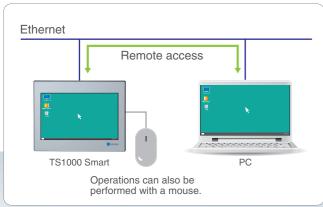
Operation

Tablet computer

*A setting for only monitoring is also available

02 Remote Desktop^{*}

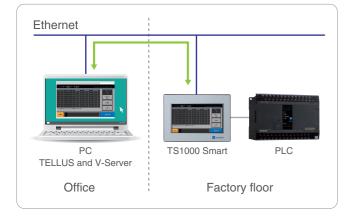
Connect via Ethernet to display and operate the server directly using TS1000 Smart.



*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.

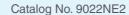




Application software to connect offices and factory floors at minimal cost

TELLUS and V-Server

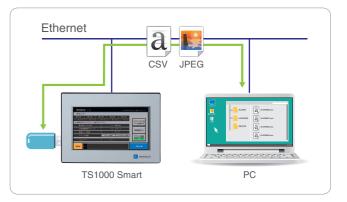
The VNC server feature is a remote monitoring and management system able to collect real-time information about factory floors, including data aggregation and data management, via the Internet whether at the office or from overseas.



TFIIUS and V-Se

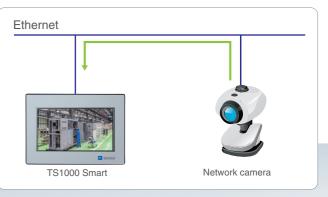
04 FTP Server

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



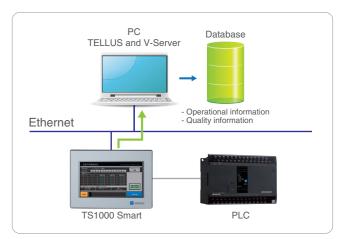
05 Network Camera

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



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	$1,024 \times 768$ (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





V-SFT expands conventional real

Real Icons

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



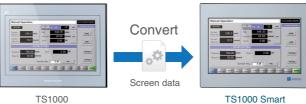
03 Supports Configuration with **Tool Hints**

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.



TS1000

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



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

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

Fuji Servo System РН

Servo System with Enhanced Ease-of-Use

- + High-speed, high precision positioning
- Frequency response 1500Hz Max motor speed 6000r/min • High resolation 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



06



Catalog No. 22B1-E-0019

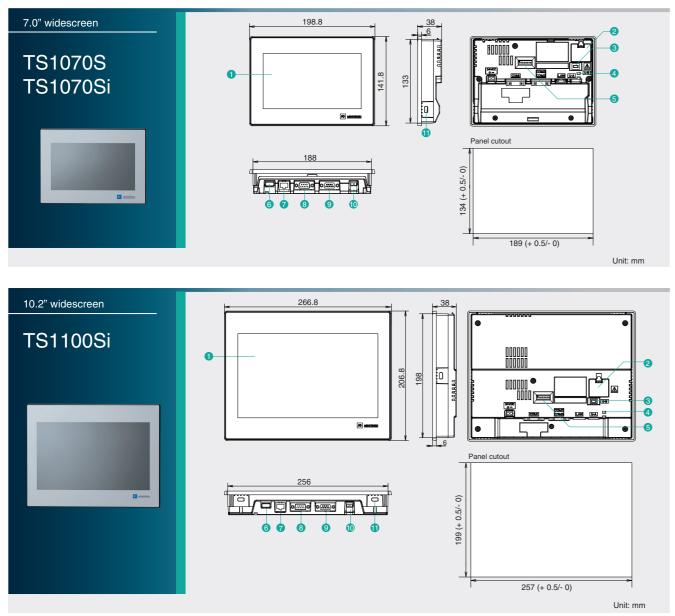


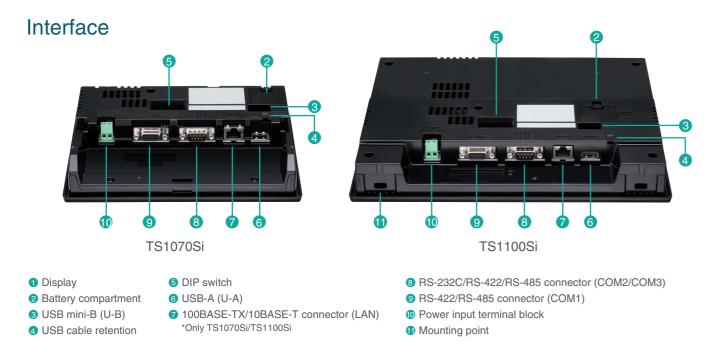




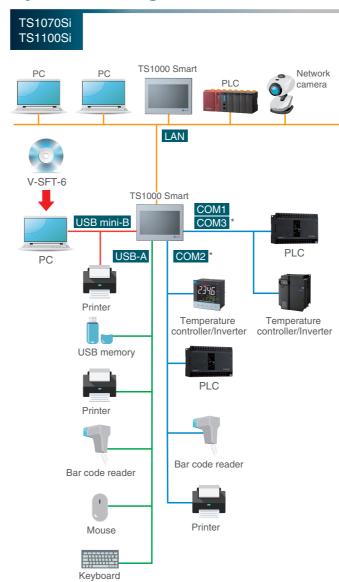
07

Dimensions





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.

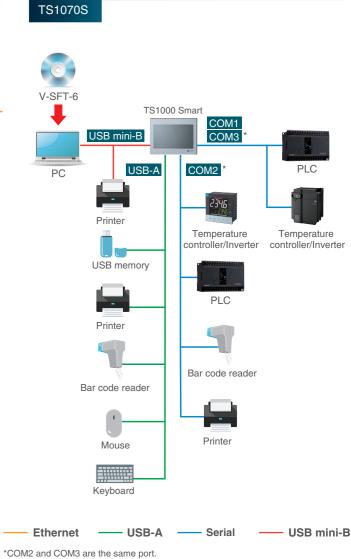
(COM1)



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)





COM2 and COM3 can be used at the same time.

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
Manufacturer	MICREX-F series
	MICREX-F series V4-compatible
Fuji Electric	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 MICREX-SX (Ethernet)
	PLC-5
	PLC-5 (Ethernet)
	SLC500 SLC500 (Ethernet TCP/IP)
	NET-ENI (SLC500 Ethernet TCP/IP)
Allen-Bradley	NET-ENI (MicroLogix Ethernet TCP/IP)
Alter bladicy	MicroLogix MicroLogix (Ethernet TCP/IP)
	ControlLogix / CompactLogix
	ControlLogix (Ethernet)
	Micro800 Controllers
	Micro800 Controllers (Ethernet TCP/IP) Direct LOGIC (K-Sequence)
Automationdirect	Direct LOGIC (Ethernet UDP/IP)
Azbil	Direct LOGIC (MODBUS RTU)
Baumuller	MX series BMx-x-PLC
BECKHOFF	ADS protocol (Ethernet)
	BP series CP series
CIMON	S series
	S series (Ethernet)
	DVP series
DELTA	DVP series (MODBUS ASCII) DVP series (MODBUS TCP/IP)
EATON Cutler-Hammer	ELC
EMERSON	EC10/20/20H (MODBUS RTU)
FANUC Fatek Automation	Power Mate FACON FB series
FESTO	FEC
FUFENG	APC series Controller
	90 series 90 series (SNP-X)
GE Fanuc	90 series (SNP-X) 90 series (SNP)
	90 series (Ethernet TCP/IP)
	RX3i (Ethernet TCP/IP) HIDIC-S10/2a,S10mini
	HIDIC-S10/2a,S10mini (Ethernet)
Hitachi	HIDIC-S10/4a
	HIDIC-S10V HIDIC-S10V (Ethernet)
	HIDIC-H
Hitachi Industrial	HIDIC-H (Ethernet)
Equipment Systems	HIDIC-EHV HIDIC-EHV (Ethernet)
HYUNDAI	Hi5 Robot (MODBUS RTU)
HIGNDAI	Hi4 Robot (MODBUS RTU)
IDEC	MICRO 3 MICRO Smart
1022	MICRO Smart pentra
Jetter	JetControl series2/3 (Ethernet UDP/IP)
	TOYOPUC TOYOPUC (Ethernet)
ITENT	TOYOPUC (Ethernet PC10 mode)
JTEKT	TOYOPUC-Plus
	TOYOPUC-Plus (Ethernet) TOYOPUC-Nano (Ethernet)
	KZ series Link
	KZ-A500 CPU
	KZ/KV series CPU KZ24/300 CPU
	KV10/24 CPU
KEYENCE	KV-700
	KV-700 (Ethernet TCP/IP) KV-1000
	KV-1000 (Ethernet TCP/IP)
	KV-3000/5000 KV-3000/5000 (Ethernet TCP/IP)
	KV-3000/5000 (Ethernet TCP/IP) KV-7000 (Ethernet TCP/IP)
	SU/SG
KOYO ELECTRONICS	SR-T (K protocol) SU/SG (K-Sequence)
	SU/SG (K-Sequence) SU/SG (MODBUS RTU)
	MASTER-KxxxS
	MASTER-KxxxS CNET
	MASTER-K series (Ethernet) GLOFA CNET
	GLOFA GM7 CNET
	GLOFA GM series CPU
LS	GLOFA GM series (Ethernet UDP/IP) XGT/XGK series CNET
	XGT/XGK series CPU
	XGT/XGK series (Ethernet)
	XGT/XGI series CNET XGT/XGI series CPU
	XGT/XGI series CNET XGT/XGI series CPU XGT/XGI series (Ethernet)
	XGT/XGI series CNET XGT/XGI series CPU XGT/XGI series (Ethernet) A series link
	XGT/XGI series CNET XGT/XGI series CPU XGT/XGI series (Ethernet) A series link QnA series link
	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
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	XGT/XGI series CNET XGT/XGI series CPU XGT/XGI series (Ethernet) A series link QnA series (Ethernet) QnH (Q) series link QnH (Q) series CPU QnU series CPU
	XGT/XGI series CNET XGT/XGI series (Ethernet) XGT/XGI series (Ethernet) A series link QnA series (Ethernet) QnH (Q) series link QnH (Q) series CPU QnU series CPU Q00J/00/01 CPU QnH (Q) series (Ethernet)
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MITSUBISHI ELECTRIC	XGT/XGI series CNET XGT/XGI series CPU XGT/XGI series (Ethernet) A series link QnA series (Ethernet) QnH (Q) series link QnH (Q) series CPU QnJ series (Ethernet) QnU series CPU QnJ (Q) Series CPU QnH (Q) series (Ethernet) QnH (Q) series (Ethernet) QnH (Q) series (Ethernet) QnH (Q) series (Ethernet) QnH (Q) series (multi CPU) QnH (Q) series (multi CPU)
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MITSUBISHI ELECTRIC	XGT/XGI series CNET XGT/XGI series CPU XGT/XGI series (Ethernet) A series link QnA series (Ethernet) QnH (Q) series link QnH (Q) series (PU QnU (Q) series (PU QnU (Q) series (PU QnH (Q) series (Ethernet) QnH (Q) series (Ethernet) QnH (Q) series (Ethernet) QnH (Q) series (Ethernet) QnH (Q) series (PU QnH (Q) series (CPU (Ethernet) QnH (Q) series (CPU (LEthernet) QnH (Q) series (CPU (LEthernet) QnH (Q) series (multi CPU) (Ethernet ASCII) QnH (Q) series (multi CPU) (Ethernet ASCII)
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MITSUBISHI ELECTRIC	XGT/XGI series CNET XGT/XGI series CPU XGT/XGI series (Ethernet) A series link QnA series (Ethernet) QnH (Q) series link QnH (Q) series CPU QnOJ series CPU QnJ series (Ethernet) QnH (Q) series CPU QnH (Q) series (Ethernet) QnH (Q) series (Ethernet) QnH (Q) series (Ethernet) QnH (Q) series (CPU (multi CPU) QnH (Q) series (Inulti CPU) (Ethernet) QnH (Q) series (Inulti CPU) (Ethernet ASCII) QnH (Q) series (Inulti CPU) (Ethernet ASCII) QnH (Q) series (Inulti CPU) L series (Inulti Ethernet) L series (CPU
MITSUBISHI ELECTRIC	XGT/XGI series CNET XGT/XGI series (Ethernet) A series link QnA series (Ethernet) QnH (Q) series link QnH (Q) series (Ethernet) QnH (Q) series (Ethernet ASCII) QnH (Q) series (built-in Ethernet) L series link L series (built-in Ethernet)

Manufacturer	As of April 20 Models
mendidectarei	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)
AITSUBISHI ELECTRIC	A-link + Net10
	Q170MCPU (multi CPU) Q170 series (multi CPU) (Ethernet)
	iQ-R series (Built-in Ethernet)
	iQ-R series link
NODICON	iQ-R series (Ethernet)
AOELLER	MODBUS RTU PS4
	SYSMAC C
	SYSMAC CV SYSMAC CS1/CJ1
	SYSMAC CS1/CJ1 DNA
OMRON	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)
anasonic	FP-X (TCP/IP)
	FP7 series (RS232C/422)
	FP7 series (Ethernet) NX7/NX Plus series (70P/700P/CCU+)
	N7/NX Plus series (70/700/2CCU+) N7/NX series (70/700/750/CCU)
S Automation	NX700 series (Ethernet)
	X8 series X8 series (Etherpet)
	X8 series (Ethernet) PCD
AIA	PCD S-BUS (Ethernet)
AMSUNG	SPC series
AMJONG	N_plus SECNET
	JW series
	JW100/70H COM port JW20 COM port
HARP	JW series (Ethernet)
	JW300 series
	JW311/312/321/322 series (Ethernet) JW331/332/341/342/352/362 series (Ethernet)
	S5 PG port
	\$7
	S7-200 PPI
	S7-200 (Ethernet ISOTCP) S7-300/400 MPI
iemens	S7-300/400 (Ethernet ISOTCP)
	S7-300/400 (Ethernet TCP/IP protocol)
	S7-1200/1500 (Ethernet ISOTCP) TI500/505
	TI500/505 V4 Compatible
INFONIA TECHNOLOGY	SELMART
ECO elemecanique	TP-03 (MODBUS RTU) TSX Micro
· · · · · ·	T series /V series (T compatible)
OSHIBA	T series /V series (T compatible) (Ethernet UDP/IP)
	EX series nv series(Ethernet UDP/IP)
OSHIBA MACHINE	TC200
	μ GPCsx series
OYO DENKI	μ GPCsx CPU μ GPCsx series (Ethernet)
urck	BL series Distributed I/O (MODBUS TCP/IP)
Iltra Instruments	UIC CPU (MODBUS ASCII) M90/M91/Vision series (ASCII)
NITRONICS	Vision series (ASCII Ethernet TCP/IP)
IGOR	M series
/AGO	750 series (MODBUS RTU) 750 series (MODBUS Ethernet)
INIE	XC series (MODBUS Ethernet) XC series (MODBUS RTU)
	Memobus
	CP9200SH/MP900
	MP2300 (MODBUS TCP/IP) CP/MP expansion memobus (UDP/IP)
askawa Electric	MP2000 series
	MP2000 series (UDP/IP)
	MP3000 series MP3000 series (Ethernet UDP/IP)
	MP3000 series expansion memobus (Ethernet)
	FA-M3
	FA-M3R FA-M3/FA-M3R (Ethernet UDP/IP)
	FA-M3/FA-M3R (Ethernet UDP/IP ASCII)
okogawa Electric	FA-M3/FA-M3R (Ethernet TCP/IP)
	FA-M3/FA-M3R (Ethernet TCP/IP ASCII) FA-M3V
	FA-M3V (Ethernet)
	FA-M3V(Ethernet ASCII)
	Universal serial
	Without PLC Connection MODBUS RTU
lone	MODBUS RTU EXT Format
ione	MODBUS TCP/IP (Ethernet)
	MODBUS TCP/IP (Ethernet) Sub Station MODBUS TCP/IP (Ethernet) EXT Format
	mobbos rer/ir (Luienieu) EAT FUIIIdu

Connection Device List (Temperature Controller/Servo/Inverter)

Manufacturer	Models
	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)
	FRENICS000 GTIS/PTIS (MODBUS RTU) FRENICS000 VG7S (MODBUS RTU)
	FRENIC-Ace (MODBUS RTU)
	FRENIC-Eco (MODBUS RTU) FRENIC-HVAC/AQUA (MODBUS RTU)
	FRENIC-MEGA (MODBUS RTU)
uii Elestria	FRENIC-MEGA SERVO (MODBUS RTU)
uji Electric	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
cilent	WSZ series (Ethernet)
gilent SAHI ENGINEERING	4263 series Stepping Motor
	SDC10
	SDC15
	SDC20 SDC21
	SDC25/26
	SDC30/31
	SDC35/36 SDC45/46
zbil	SDC40A
	SDC40G DMC10
	DMC10 DMC50 (COM)
	AHC2001
	AHC2001+DCP31/32 DCP31/32
	NX (CPL)
	NX (MODBUS RTU)
	NX (MODBUS TCP/IP) AD4402 (MODBUS RTU)
&D	AD4402 (MODBUS RTU) AD4404 (MODBUS RTU)
anner	Presence PLUS (Ethernet/IP (TCP/IP))
osh Rexroth	Indra Drive LT400 series (MODBUS RTU)
	DP1000
	DB1000B (MODBUS RTU)
HINO	KR2000 (MODBUS RTU) LT230 (MODBUS RTU)
	LT300 (MODBUS RTU)
	LT830 (MODBUS RTU)
ELTA TAU DATA SYSTEMS	PMAC PMAC (Ethernet TCP/IP)
ammaflux	TTC2100
gh-Pressure Gas Industry	R-BLT
itachi Industrial Equipment Systems	SJ300 series SJ700 series
	X-SEL controller
AI	ROBO CYLINDER (RCP2/ERC)
	ROBO CYLINDER (RCS/E-CON) PCON/ACON/SCON (MODBUS RTU)
DGANEI	IBFL-TC
enze	Servo Drive 9400 (Ethernet TCP/IP)
	FR-*500 FR-V500
	MR-J2S-*A
ITSUBISHI ELECTRIC	MR-J2S-*CL
	MR-J3-*A MR-J3-*T
	MR-J4-*A
200	FR-E700
OOG -SYSTEM	J124-04x series R1M series (MODBUS RTU)
SISTEM	E5AK
	E5AK-T
	E5AN/E5EN/E5GN E5AR/E5ER
	ESAR/ESER ESCK
	E5CK-T
MDON.	ESCN-HT
OMRON	E5EK E5ZD
	ESZE
	E5ZN
	V600/620/680 KM20
	KM20 KM100
	V680S (Ethernet TCP/IP)
Driental Motor	High-efficiency AR series (MODBUS RTU)
	CRK series (MODBUS RTU)
anasonic	LP-400

Manufacturer	Models
Panasonic	MINAS A4 series
	SR-Mini (MODBUS RTU)
	CB100/CB400/CB500/CB700/CB900 (MODBUS RTU)
	SR-Mini (Standard Protocol)
RKC	REX-F400/F700/F900 (Standard Protocol) REX-F9000 (Standard Protocol)
KKC	SRV (MODBUS RTU)
	MA900/MA901 (MODBUS RTU)
	SRZ (MODBUS RTU)
	FB100/FB400/FB900 (MODBUS RTU)
RS Automation	CSD5 (MODBUS RTU)
	Moscon-F50 (MODBUS RTU)
SANMEI	Cuty Axis
SanRex	DC AUTO (HKD type) DS-30D
SHARP	DS-30D DS-32D
SHIMADEN	SHIMADEN standard protocol
Similate	C series
	FC series
	GC series
	DCL-33A
SHINKO TECHNOS	JCx-300 series
	PC-900
	PCD-33A ACS-13A
	ACS-15A ACD/ACR series
	WCL-13A
Siemens	S120 (Ethernet ISOTCP)
SUS	XA-A*
	TTM-000
ТОНО	TTM-00BT
	TTM-200 (MODBUS RTU)
Tokyo Chokoku Marking Products	MB3315/1010
	VF-S7
	VF-S9 VF-S11
	VF-511 VF-515
	VF-A7
TOSHIBA	VF-AS1
IOSHIBA	VF-P7
	VF-PS1
	VF-FS1
	VF-MB1
	VF-nC1 VF-nC3
TOSHIBA MACHINE	VELCONIC series
ULVAC	G-TRAN series
0EVAC	F340A
	F371
UNIPULSE	F800
	F720A
	F805A
YAMAHA	RCX142
Yaskawa Electric	DX200 (High-Speed Ethernet) UT100
	UT750
	UT550
	UT520
	UT350
Vokogowa Electric	UT320
Yokogawa Electric	UT2400/2800
	UT450
	UT32A/35A (MODBUS RTU)
	UT52A/55A (MODBUS RTU)
	UT75A (MODBUS RTU) μR10000/20000 (Ethernet TCP/IP)
	MODBUS RTU
None	MODBUS TCP/IP (Ethernet)

▲ 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.

Fuji Electric Co., Ltd.

URL : www.fujielectric.com/ Gate City Ohsaki, East Tower, 11-2, Osaki 1-chome, Shinagawa-ku, Tokyo 141-0032, Japan Phone : +81-3-5435-7066 Fax : +81-3-5435-7420

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