

# **Programmable Operator Interface** TECHNOSHOT

### ▲ 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.

# www.monitouch.com

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Distributor			

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## Quick and accurate machine data at your fingertips



# The functions that meet the needs of production sites



# TS2060 TS2060i

 5.7
 QVGA
 64K
 TFT
 LED
 2ch
 USB
 C € 
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		TS2060	TS2060i
Screen memory (FROM)		2.5M bytes	10.5M bytes
Backup memory (SRAM)		128K bytes	512K bytes
Stroke font		-	Compatible
Screen specifications	Display device	TFT color	
	Resolution	320 × 240 dots	
	Display size	5.7 inches(QVGA)	
	Colors	65,536 colors(The software is compatible with displays in 32K colors, 256 colors, 128 colors and monochron	
	Backlight	LED	
	Backlight life	50,0	00 hrs
Touch switch	Туре	Analog re	sistive film
Function switch	Number of switches		6
External interface	D-Sub 9-pin <sup>-1</sup>	-	RS-232C/RS-422/RS-485, asynchronous type, Data length: 7, 8 bits, Parity : odd, even, none, Stop bit : 1, 2 bits, Baud rate : 4800, 9600, 19200, 38400, 57600, 76800, 115200 bps
	Modular 8-pin (MJ1/2)	RS-232C/RS-422(4-wire type) <sup>-2</sup> /RS-485 (2-wire type), asynchronous type, Data length : 7, 8 bits, Parity : odd, even, none, Stop bit : 1, 2 bits, Baud rate : 4800, 9600, 19200, 38400, 57600, 76800, 115200, 187500 bps <sup>-3</sup>	
	SD card	_	1 card slot(SD/SDHC card)
	Ethernet	-	1CH, Baud rate : 100Mbps, 10Mbps
	USB	Type mini-B(Ver. 2.0)	Type A,Type mini-B(Ver. 2.0)
	Communication unit	-	CUR-xx compatible
Power supply	Permissible range of voltage	DC24 V ± 10% 13W or lower	
	Demand (maximum rating)		
Physical environment	Ambient temperature	$0^{\circ}\mathrm{C} \sim +50^{\circ}\mathrm{C}^{\cdot_4}$	
	Ambient storange temperature	$-10^{\circ}\text{C} \sim +60^{\circ}\text{C}^{\cdot4}$	
	Ambient humidity	85% RH or less (without dew condensation)	
	Storage humidity         85% RH or less (without dew condensation)           Operation altitude         2,000 meters or less		out dew condensation)
			ters or less
Operation atmosphere Not exposed to corrosive		Not exposed to corrosive gas or exc	cessive dust (free of conductive dust)
	Contamnation level	Lev	vel 2
Installation conditions	Grounding resistance	Less than 100 $\Omega$ , FG/SG separation	
	Protect structure	Front panel : Compatible with IP65 (when gasket is used), Rear cover : Compatible with IP20	
	Cooling system	Natural air cooling	
	Dimensions W×H×D	182.5 × 138.8 ×45.8 mm	
	Panel cutout	· · · ·	me as for V806/V606e/S806)
Compatible standards			-1, UL61010-2-201
Case color			ack
Battery		Built-in button battery / Battery life	: 5 years (ambient temperature 25°C)

\*1 Only when an optional unit DUR-00 is attached to TS2060i. \*2 Only MJ2 is compatible with 4-wire system.

\*3 SIEMENS MPI / PPI at 187500 bps is available only with MJ2. \*4 Keep wet bulb temperature under 39°C to avoid malfunction.

# support the development of speedy production systems.

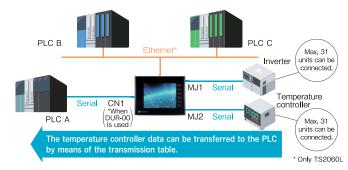
Connection and data transmission with multiple devices are possible.

#### 8-way Communication

One TS unit can connect up to eight types of PLC and peripherals of different models and manufacturers via Ethernet (8 protocols) and serial connection (3 protocols).

#### Gateway Function (Transmission Table)

Data of multiple units can be read and written by means of the Transmission Table.



#### Use of SD Cards for Greater Convenience (TS2060i only)

#### Sampling Function

Sampling data of the PLC and temperature controller are shown on trend graphs, and saved as CSV files in the SD card.



#### Recipe Function

Production conditions and parameters are saved as CSV files in the SD card, and read into the PLC when necessary.



#### Screen Data Transmission

Screen data is saved in the SD card and transferred without using a PC.

#### Multilanguage

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

1

dministrator Maintenance Operator



Compatible language fonts Japanese, English/ Western European, Chinese (traditional and simplified), Korean, Central European, Cyrillic, Greek, Turkish and Baltic (Other languages can be displayed by using Windows fonts.)

600

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#### Security Function

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

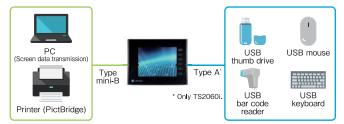
You can view log data for operations such as pushing of buttons and entering of values to analyze the causes of failure.

Operation Log\*

#### Expansion of connectivity by means of USB ports

#### USB Port (Compatible with USB Ver.2.0)

The unit comes with USB ports. Various devices can be connected using Type  $A^*$  and Type mini-B ports.



#### Path-through Programming

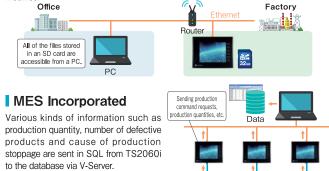
PLC program data can be transferred via the USB slave port. There is no need for cable insertion and removal.



Versatile Network Functions for Increasing Production Efficiency

#### FTP Server Function

Data stored in an SD card of TS2060i in a remote place can be read out and modified.



No program is needed for communication with the database.

(MES: Manufacturing Execution System)



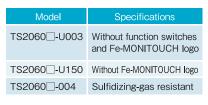
#### Special Models

Special models of the TS2000 series are available according to customer needs.

\*Please ask our sales department about the delivery period and price.

#### Vertical Installation

Vertical screen layout (90° rotation) is available for display and editing. The viewing angle is 80° and it is easy to see the screen even when it is installed vertically.





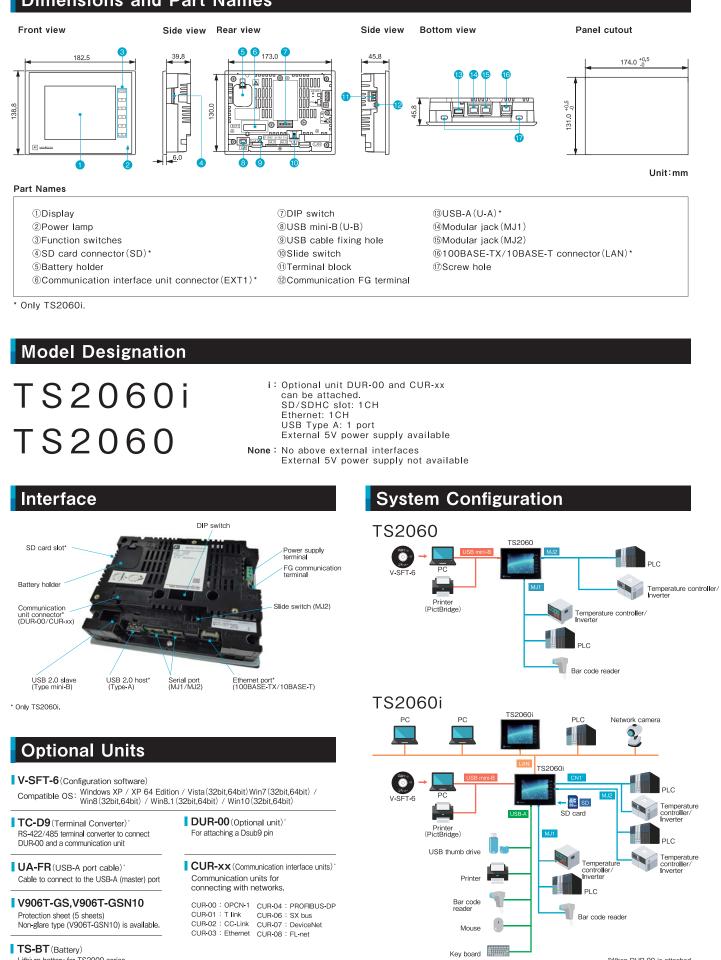
TS2060□ TS2060□-U003



### VICPAS **HMI Parts Center**

\*When DUR-00 is attached

### Dimensions and Part Names



Ethernet

\* Only TS2060i.

USB-A

------ Serial

Maker	PLC	
	PLC-5	
	PLC-5 (Ethernet)	
	SLC500	
	SLC500 (Ethernet TCP/IP)	
	NET-ENI (SLC500 Ethernet TCP/IP)	
Allen-Bradley	NET-ENI (MicroLogix Ethernet TCP/IP)	
	MicroLogix	
	MicroLogix (Ethernet TCP/IP)	
	ControlLogix / CompactLogix ControlLogix (Ethernet)	
	Micro 800 Controllers	
	Micro 800 Controllers (Ethernet TCP/IP)	
	Direct LOGIC (K-Sequence)	
Automationdirect	Direct LOGIC (Ethernet UDP/IP)	
	Direct LOGIC (MODBUS RTU)	
Azbil	MX series	
Baumuller	BMx-x-PLC	
Beckhoff	ADS Protocol (Ethernet)	
	BP Series	
CIMON	S Series	
	S Series (Ethernet)	
DELTA	DVP series	
EATON Cutler-Hammer	ELC	
EMERSON	EC10/EC20/EC20H (MODBUS RTU)	
FANUC	Power Mate	
FATEK AUTOMATION	FACON FB series	
FUFENG	APC Series Controller	
	MICREX-F series	
	MICREX-F series V4-compatible	
	MICREX-F T-Link	
	MICREX-F T-Link V4-compatible SPB (N mode) & FLEX-PC series	
	SPB (N mode) & FLEX-PC Series	
Fuji Electric	MICREX-SX (T-Link)	
	MICREX-SX (OPCN-1)	
	MICREX-SX (SX bus)	
	MICREX-SX SPH/SPB/SPM/SPE series	
	MICREX-SX SPH/SPB/SPM/SPE CPU	
	MICREX-SX (Ethernet)	
	90 series	
GE Fanuc	90 series (SNP-X)	
	90 series (SNP) 90 series (Ethernet TCP/IP)	
	RX3i (Ethernet TCP/IP)	
	HIDIC-S10/2alpha,S10mini	
Hitachi	HIDIC-S10/2alpha,S10mini (Ethernet)	
	HIDIC-S10/4alpha	
	HIDIC-S10V	
	HIDIC-S10V (Ethernet)	
	HIDIC-H	
Hitach Industrial	HIDIC-H (Ethernet)	
Equipement Systems	HIDIC-EHV	
	HIDIC-EHV (Ethernet)	
HYUNDAI	Hi5 Robot (MODBUS RTU)	
	Hi4 Robot (MODBUS RTU) MICRO3	
IDEC	MICRO Smart	
IDEO	MICRO Smart pentra	
Jetter	JetControl Series2/3 (Ethernet UDP/IP)	
	TOYOPUC	
	TOYOPUC (Ethernet)	
JTEKT	TOYOPUC (Ethernet PC10 mode)	
	TOYOPUC-Plus	
	TOYOPUC-Plus (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 KV-1000 (Ethernet TCP/IP)	
	KV-1000 (Enemet TCF/IF)	
	KV-3000/5000 (Ethernet TCP/IP)	

Lithium battery for TS2000 series

DUR-00 and CUR-xx cannot be used simultaneously.

KOYO ELECTRONICS         SR-T (K protocol)           SU/SG (MOBUS RTU)         MASTER-KxxXS           MASTER-KxxS CNET         MASTER-Kxxis (CHEMMENT)           GLOFA GM: Series (Ethernet)         GLOFA GM: Series (Ethernet)           GLOFA GM: Series (Ethernet)         GLOFA GM: Series (Ethernet)           SUTXG (Mosties CPU         XGT/XGK series CPU           XGT/XGK series CPU         XGT/XGK series CPU           A series (CPC)         A series (CPU           A series (CPU         A series (CPU           QAA series CPU         QOU/OO/OT CPU           QHU (Q) series link         QHI (Q) series CPU           QU/OO/OT CPU         QHI (Q) series (CPU-MUI)           QHI (Q) series CPU (IMUII CPU)         QHI (Q) series (CPU-MUI)           QHI (Q) series (CPU-MUI)         QHI (Q) series (CPU-MUI)           QHI (Q) series (CPU-MUI (CPU)         QHI (Q) series (CPU-MUI)           QHI (Q) series (CPU-MUI (CPU)         QHI (Q) series (CPU-MUI)           QHI (Q) series (CPU-MUK)         QHA series (CPU-MUK)           QHA series (CPU-MUK)	Maker	PLC
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MITSUBISHI ELECTRIC <ul> <li>MH (Q) series link</li> <li>QnH (Q) series CPU</li> <li>QOJ/OD/O1 CPU</li> <li>QOJ/OD/O1 CPU</li> <li>QnH (Q) series (Ethernet)</li> <li>QnH (Q) series (Ethernet)</li> <li>QnH (Q) series (Ethernet)</li> <li>QnH (Q) series cPU (multi CPU)</li> <li>QnH (Q) series (multi CPU) (Ethernet)</li> <li>QnH (Q) series (multi CPU) (Ethernet ASCII)</li> <li>QnH (Q) series (cC-LINK)</li> <li>QnH (Q) series (CC-LINK)</li> <li>QnA series (CC-LINK)</li> <li>QnA series (CC-LINK)</li> <li>QnA series (CC-LINK)</li> <li>FX series CPU</li> <li>FX series Iink (A ptotocol)</li> <li>FX3U/3UC/3G series CPU</li> <l< td=""><td>_</td><td></td></l<></ul>	_	
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MITSUBISHI ELECTRICQ0U/00/01 CPUQnH (Q) series (Ethernet)QnH (Q) series (multi CPU) (Ethernet)QnH (Q) series (CPU) (multi CPU)QnH (Q) series (CPU) (Ethernet ASCII)QnH (Q) series (multi CPU) (Ethernet ASCII)QnH (Q) series (Ethernet ASCII)QnH (Q) series (CPU)Exeries (CC-LINK)QnAseries (CC-LINK)QnA series (CC-LINK)QnA series (CC-LINK)QnA series (CC-LINK)QnA series (CC-LINK)QnA series (CC-LINK)PX2N/1N series CPUFX3U/3UC/3G series CPUFX3U/3UC/3G series CPUFX3U/3UC/3G series CPUFX3U/3UC/3G series (Ethernet)FX3U/3UC/3G series (Ethernet)FX3U/3UC/3G series (Ethernet)Atink+Net10Q170MCPU (multi CPU)Q170 series (multi CPU) (Ethernet)iQ-R seires (Ethernet)iQ-R seires (Ethernet)iQ-R seires (Ethernet)MODICONMODBUS RTUMOELLERPS4SYSMAC CSYSMAC CS1/CJ1SYSMAC CS1/CJ1 (Ethernet)SYSMAC CS1/CJ1 (Ethernet)SYSMAC CS1/CJ1 (Ethernet)		QnH (Q) series CPU
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MITSUBISHI ELECTRICQnH (Q) series link (multi CPU) QnH (Q) series CPU (multi CPU) QnH (Q) series CPU (multi CPU) QnH (Q) series (multi CPU) (Ethernet ASCII) QnU series (multi CPU) (Ethernet ASCII) QnU series (built-in Ethernet) L series link L series (built-in Ethernet) L series (CC-LINK) QnA series (CC-LINK) QnA series (CC-LINK) QnA series (CC-LINK) QnH (Q) series CPU FX SU/3UC/3G series CPU SU/3UC/3G series		
MITSUBISHI ELECTRICQnH (Q) series CPU (multi CPU)QnH (Q) series (multi CPU) (Ethernet ASCII)QnH (Q) series (multi CPU) (Ethernet ASCII)QnU series (built-in Ethernet)L series linkL series ics (C-LINK)QnA series (CC-LINK)QnH (Q) series (CC-LINK)QnH (Q) series (CC-LINK)QnH (Q) series (CC-LINK)PX2N/1N series CPUFX series CPUFX2N/1N series CPUFX3U/3UC/3G series CPUFX3U/3UC/3G series CPUFX3U/3UC/3G series CPUFX3U/3UC/3G series CPUFX3U/3UC/3G series CPUFX3U/3UC/3G series SInk (A protocol)FX5U/5UC seriesFX5U/5UC seriesFX5U/5UC series (Ethernet)Alink+Net10Q170 MCPU (multi CPU) (Ethernet)iQ-R seires (luilt-in Ethernet)iQ-R seires (luilt-in Ethernet)iQ-R seires linkiQ-R seires (Ethernet)MODICONMODBUS RTUMOELLERPS4SYSMAC CSYSMAC CS1/CJ1SYSMAC CS1/CJ1 DNASYSMAC CS1/CJ1 DNASYSMAC CS1/CJ1 DNASYSMAC CS1/CJ1 (Ethernet)	_	
MITSUBISHI ELECTRIC         QnH (Q) series (Ethernet ASCII)           MITSUBISHI ELECTRIC         L series (built-in Ethernet)           L series (built-in Ethernet)         L series (built-in Ethernet)           L series (CC-LINK)         QnH (Q) series (CC-LINK)           QnH (Q) series (CC-LINK)         Prescription (C)           FX series CPU         FX series CPU           FX Series CPU         FX series CPU           FX series Ink (A ptotocol)         FX series CPU           FX3U/3QC/3G series CPU         FX3U/3QC/3G series Series Ink (A protocol)           FX5U/5UC series         FX5U/5UC series           FX5U/5UC series (Ethernet)         Alink+Net10           Q170MCPU (multi CPU)         Q170 series (multi CPU) (Ethernet)           iQ-R seires (Ethernet)         iQ-R seires (Ethernet)           iQ-R seires (Ethernet)         SYSMAC C           SYSMAC C         SYSMAC CV           SYSMAC CS1/CJ1         SYSMAC CS1/CJ1 DNA           SYSMAC CS1/CJ1 DNA         SYSMAC CS1/CJ1 CEthernet)		QnH (Q) series (multi CPU) (Ethernet)
MITSUBISHI ELECTRIC         QnH (Q) series (multi CPU) (Ethernet ASCII)           MITSUBISHI ELECTRIC         L series (built-in Ethernet)           L series (built-in Ethernet)         L series (CC-LINK)           QnH (Q) series (CC-LINK)         QnA series (CC-LINK)           QnH (Q) series (CC-LINK)         QnH (Q) series (CC-LINK)           QnH (Q) series (CC-LINK)         QnH (Q) series (CC-LINK)           FX series CPU         FX series CPU           FX series CPU         FX series CPU           FX series CPU         FX series CPU           FX series Ink (A ptotocol)         FX3U/3UC/3G series CPU           FX3U/3UC/3G series (Ethernet)         FX3U/3UC/3G series CPU           FX3U/3UC/3G series (Ethernet)         FX3U/3UC/3G series (Ethernet)           FX3U/3UC/3G series (Ethernet)         FX5U/5UC series           FX5U/5UC series         FX5U/5UC series           FX5U/5UC series (multi CPU)         Q170 MCPU (multi CPU)           Q170 MCPU (multi CPU)         Q170 series (multi CPU) (Ethernet)           iQ-R seires (Inik         iQ-R seires (Ethernet)           iQ-R seires (Ethernet)         iQ-R seires (Ethernet)           MODICON         MODBUS RTU           MOELLER         PS4           SYSMAC C         SYSMAC CV           SYSMAC CV         SYSMAC	_	
MITSUBISHI ELECTRIC         QnU series (built-in Ethernet)           L series CPU         A series (CC-LINK)           QnH (Q) series (CC-LINK)         QnH (Q) series (CC-LINK)           QnH (Q) series (CC-LINK)         QnH (Q) series (CC-LINK)           Ref (C) Series (CC-LINK)         QnH (Q) series (CC-LINK)           FX series CPU         FX series CPU           FX series CPU         FX series CPU           FX series Iink (A ptotocol)         FX3U/3UC/3G series CPU           FX3U/3UC/3G series (Ethernet)         FX3U/3UC/3G series (CPU           FX3U/3UC/3G series (Ethernet)         FX3U/3UC/3G series (Ethernet)           FX5U/5UC series         FX5U/5UC series           FX5U/5UC series (Ethernet)         Alink+Net10           Q170 model (CPU) (multi CPU)         Q170 series (multi CPU) (Ethernet)           iQ-R seires (Ethernet)         iQ-R seires (Ethernet)           iQ-R seires (Ethernet)         iQ-R seires (Ethernet)           iQ-R seires (Ethernet)         iQ-R seires (Ethernet)           iQ-R seires (Ethernet)         SYSMAC C           SYSMAC C         SYSMAC CV           SYSMAC CS1/CJ1         SYSMAC CS1/CJ1 (Ethernet)		
MITSUBISHI ELECTRIC L series (DU A series (CC-LINK) QnA series (CC-LINK) QnH (Q) series (CC-LINK) QnH (Q) series (CC-LINK) FX series CPU FX series CPU FX series CPU FX1/1N series CPU FX1/1N series CPU FX3U/3UC/3G series CPU FX3U/3UC/3G series CPU FX3U/3UC/3G series (Ethernet) FX3U/3UC/3G series link (A protocol) FX5U/5UC series FX5U/5UC series FX5U/5UC series (Ethernet) Alink+Net10 Q170 MCPU (multi CPU) Q170 series (multi CPU) (Ethernet) iQ-R seires (built-in Ethernet) iQ-R seires (built-in Ethernet) iQ-R seires (Ethernet) MODICON MODBUS RTU MODICON MODBUS RTU MODICON MODBUS RTU MODICON MODBUS RTU MODICON MODBUS CC SYSMAC C SYSMAC CV SYSMAC CV SYSMAC CS1/CJ1 SYSMAC CS1/CJ1 DNA SYSMAC CS1/CJ1 (Ethernet)		
MITSUBISHI ELECTRIC           L series CPU           A series (CC-LINK)           QnA series (CC-LINK)           QnH (Q) series (CC-LINK)           FX series CPU           FXU/30C/3G series CPU           FXU/30C/3G series CPU           FXU/50C series           FXU/50C series           FXU/50C series           FXU/50C series (Ethernet)           Q170 series (multi CPU) (Ethernet)           iQ-R seires (bult-in Ethernet)           iQ-R seires (cult-in Ethernet)           iQ-R series (Cult-in Ethernet)           MODICON         MODBUS RTU           MOELLER         PS4           SYSMAC C OV		L series link
A series (CC-LINK)           QnA series (CC-LINK)           QnH (Q) series (CC-LINK)           FX series CPU           FX2N/1N series CPU           FX1S series CPU           FX3U/3UC/3G series (Ethernet)           FX3U/3UC/3G series Iink (A protocol)           FX5U/5UC series           FX5U/5UC series (Ethernet)           Alink+Net10           Q170 series (multi CPU) (Ethernet)           iQ-R seires (built-in Ethernet)           iQ-R seires (louilt-in Ethernet)           iQ-R seires (Ethernet)           MODICON         MODBUS RTU           MOELLER         PS4           SYSMAC C         SYSMAC CV           SYSMAC CS1/CJ1         SYSMAC CS1/CJ1 DNA           SYSMAC CS1/CJ1 DNA         SYSMAC CS1/CJ1 DNA	TSUBISHI ELECTRIC	
QnA series (CC-LINK)           QnH (Q) series (CC-LINK)           FX series CPU           FX2N/1N series CPU           FX1S series CPU           FX1S series CPU           FX3U/30C/3G series CPU           FX3U/30C/3G series CPU           FX3U/30C/3G series CPU           FX3U/30C/3G series link (A protocol)           FX5U/50C series           FX5U/50C series (Ethernet)           Alink+Net10           Q170 MCPU (multi CPU)           Q170 series (multi CPU) (Ethernet)           iQ-R seires (built-in Ethernet)           iQ-R seires (Ethernet)           MODICON           MODBUS RTU           MODLLER           PS4           SYSMAC C           SYSMAC CV           SYSMAC CS1/CJ1           SYSMAC CS1/CJ1 DNA           SYSMAC CS1/CJ1 (Ethernet)	-	
FX series CPU         FX2N/1N series CPU         FX1S series CPU         FX1S series CPU         FX3U/3UC/3G series CPU         FX3U/3UC/3G series CPU         FX3U/3UC/3G series CPU         FX3U/3UC/3G series (Ethernet)         FX3U/3UC/3G series (Ethernet)         FX5U/5UC series         FX5U/5UC series         FX5U/5UC series (Ethernet)         Alink+Net10         Q170MCPU (multi CPU)         Q170 series (multi CPU) (Ethernet)         iQ-R seires (built-in Ethernet)         iQ-R seires (Ethernet)         iQ-R seires (Ethernet)         MODICON       MODBUS RTU         MOELLER       PS4         SYSMAC C       SYSMAC CV         SYSMAC CV       SYSMAC CS1/CJ1         SYSMAC CS1/CJ1 DNA       SYSMAC CS1/CJ1 DNA	-	
FX2N/1N series CPU           FX1S series CPU           FX series link (A ptotocol)           FX3U/3UC/3G series CPU           FX3U/3UC/3G series Inth (A protocol)           FX5U/5UC series           FX5U/5UC series           FX5U/5UC series (Ethernet)           Alink+Net10           Q1700 Series (multi CPU) (multi CPU)           Q170 series (multi CPU) (Ethernet)           iQ-R seires (built-in Ethernet)           iQ-R seires (built-in Ethernet)           iQ-R seires (Ethernet)           MODICON           MODBUS RTU           MOELLER         PS4           SYSMAC C           SYSMAC C (OPCN-1)           SYSMAC CVV           SYSMAC CS1/CJ1           SYSMAC CS1/CJ1 DNA           SYSMAC CS1/CJ1 DNA		
FX1S series CPU         FX series link (A ptotocol)         FX3U/3UC/3G series CPU         FX3U/3GE series (Ethernet)         FX3U/3UC/3G series ink (A protocol)         FX5U/5UC series         FX5U/5UC series (Ethernet)         Alink+Net10         Q170MCPU (multi CPU)         Q170 series (multi CPU) (Ethernet)         iQ-R seires (built-in Ethernet)         iQ-R seires link         iQ-R seires (Ethernet)         MODICON         MODBUS RTU         MOELLER       PS4         SYSMAC C         SYSMAC CV         SYSMAC CS1/CJ1         SYSMAC CS1/CJ1 DNA         SYSMAC CS1/CJ1 (Ethernet)		
FX series link (A ptotocol)           FX3U/3UC/3G series CPU           FX3U/3UC/3G series CPU           FX3U/3UC/3G series CPU           FX3U/3UC/3G series (Ethernet)           FX5U/5UC series           FX5U/5UC series (Ethernet)           Alink+Net10           Q170 series (multi CPU)           Q170 series (multi CPU) (Ethernet)           iQ-R seires (built-in Ethernet)           iQ-R seires (Ethernet)           MODICON           MODBUS RTU           MOELLER           PS4           SYSMAC C           SYSMAC CV           SYSMAC CS1/CJ1           SYSMAC CS1/CJ1 DNA           SYSMAC CS1/CJ1 (Ethernet)		
FX3U/3GE series (Ethernet)           FX3U/3UC/3G series link (A protocol)           FX5U/5UC series           FX5U/5UC series           FX5U/5UC series (Ethernet)           Alink+Net10           Q170MCPU (multi CPU)           Q170 series (multi CPU) (Ethernet)           iQ-R seires (built-in Ethernet)           iQ-R seires (Ethernet)           MODICON           MODBUS RTU           MOELLER           PS4           SYSMAC C           SYSMAC CV           SYSMAC CS1/CJ1           SYSMAC CS1/CJ1 DNA           SYSMAC CS1/CJ1 (Ethernet)		
FX3U/3UC/3G series link (A protocol)         FX5U/5UC series         FX5U/5UC series         FX5U/5UC series (Ethernet)         Alink+Net10         Q170MCPU (multi CPU)         Q170 series (multi CPU) (Ethernet)         iQ-R seires (built-in Ethernet)         iQ-R seires (Ethernet)         MODICON       MODBUS RTU         MOELLER       PS4         SYSMAC C         SYSMAC CV         SYSMAC CV         SYSMAC CS1/CJ1         SYSMAC CS1/CJ1 DNA         SYSMAC CS1/CJ1 (Ethernet)		
FX5U/5UC series           FX5U/5UC series           FX5U/5UC series (Ethernet)           Alink+Net10           Q170MCPU (multi CPU)           Q170 series (multi CPU) (Ethernet)           iQ-R seires (built-in Ethernet)           iQ-R seires (Ethernet)           MODICON           MODBUS RTU           MOELLER           PS4           SYSMAC C           SYSMAC CV           SYSMAC CV           SYSMAC CS1/CJ1           SYSMAC CS1/CJ1 DNA           SYSMAC CS1/CJ1 (Ethernet)		
FX5U/5UC series (Ethernet)         Alink+Net10         Q170MCPU (multi CPU)         Q170 series (multi CPU) (Ethernet)         iQ-R seires (built-in Ethernet)         iQ-R seires (built-in Ethernet)         iQ-R seires (Ethernet)         MODICON         MODBUS RTU         MOELLER         PS4         SYSMAC C         SYSMAC CV         SYSMAC CS1/CJ1         SYSMAC CS1/CJ1 DNA         SYSMAC CS1/CJ1 (Ethernet)	-	
Q170MCPU (multi CPU)           Q170 series (multi CPU) (Ethernet)           iQ-R seires (built-in Ethernet)           iQ-R seires (Ethernet)           MODICON         MODBUS RTU           MOELLER         PS4           SYSMAC C           SYSMAC C           SYSMAC CV           SYSMAC CS1/CJ1           SYSMAC CS1/CJ1 DNA           SYSMAC CS1/CJ1 (Ethernet)	-	
Q170 series (multi CPU) (Ethernet)           iQ-R seires (built-in Ethernet)           iQ-R seires link           iQ-R seires (Ethernet)           MODICON         MODBUS RTU           MOELLER         PS4           SYSMAC C           SYSMAC C (OPCN-1)           SYSMAC CV           SYSMAC CS1/CJ1           SYSMAC CS1/CJ1 DNA           SYSMAC CS1/CJ1 (Ethernet)		Alink+Net10
iQ-R seires (built-in Ethernet)           iQ-R seires link           iQ-R seires link           iQ-R seires (Ethernet)           MODICON         MODBUS RTU           MOELLER         PS4           SYSMAC C           SYSMAC COV           SYSMAC CS1/CJ1           SYSMAC CS1/CJ1 DNA           SYSMAC CS1/CJ1 (Ethernet)	_	
iQ-R seires link           iQ-R seires (Ethernet)           MODICON         MODBUS RTU           MOELLER         PS4           SYSMAC C         SYSMAC C           SYSMAC CV         SYSMAC CV           SYSMAC CS1/CJ1         SYSMAC CS1/CJ1 DNA           SYSMAC CS1/CJ1 (Ethernet)         SYSMAC CS1/CJ1 (Ethernet)	-	
MODICON         MODBUS RTU           MOELLER         PS4           SYSMAC C         SYSMAC C           SYSMAC C (OPCN-1)         SYSMAC CV           SYSMAC CS1/CJ1         SYSMAC CS1/CJ1           SYSMAC CS1/CJ1 (Ethernet)         SYSMAC CS1/CJ1 (Ethernet)		
MOELLER         PS4           SYSMAC C         SYSMAC C           SYSMAC C (OPCN-1)         SYSMAC CV           SYSMAC CS1/CJ1         SYSMAC CS1/CJ1           SYSMAC CS1/CJ1 DNA         SYSMAC CS1/CJ1 (Ethernet)		
SYSMAC C           SYSMAC C (OPCN-1)           SYSMAC CV           SYSMAC CS1/CJ1           SYSMAC CS1/CJ1 DNA           SYSMAC CS1/CJ1 (Ethernet)		
SYSMAC C (OPCN-1)           SYSMAC CV           SYSMAC CS1/CJ1           SYSMAC CS1/CJ1 DNA           SYSMAC CS1/CJ1 (Ethernet)	JLLLEN	
OMRON SYSMAC CS1/CJ1 SYSMAC CS1/CJ1 DNA SYSMAC CS1/CJ1 (Ethernet)		
OMRON SYSMAC CS1/CJ1 DNA SYSMAC CS1/CJ1 (Ethernet)		
SYSMAC CS1/CJ1 (Ethernet)	VIRON	
	-	
SYSMAC CS1/CJ1 (Ethernet Auto)		
SYSMAC CS1/CJ1 DNA (Ethernet)		
FP Series (RS232C/422) FP Series (TCP/IP)		
EP Series (UDP/IP)		
Panasonic FP-X (TCP/IP)	inasonic	
FP7 Series (RS232C/422)		
FP7 Series (Ethernet)		
NX7/NX Plus Series (70P/700P/CCU+) N7/NX Series (70/700/750/CCU)	-	
RS Automation NX700 Series (Ethernet)	S Automation	
X8 Series		X8 Series
X8 Series (Ethernet)		
SAIA PCD S-BUS (Ethernet)	AIA -	



#### PLC driver list

Maker	PLC
	SPC series
SAMSUNG	N_plus
	SECNET
	JW series JW100/70H COM port
	JW20 COM port
SHARP	JW series (Ethernet)
	JW300 series
	JW311/312/321/322 series (Ethernet)
SINFONIA TECHNOLOGY	JW331/332/341/342/352/362 series (Ethernet) SELMART
SINFONIA TECHNOLOGI	S5 PG port
	S7
	S7-200 PPI
	S7-200 (Ethernet ISOTCP)
0	S7-300/400MPI
Siemens	S7-300/400 (Ethernet ISOTCP) S7-300/400 (Ethernet TCP/IP PG protocol)
	S7-1200/1500 (Ethernet ISOTCP)
	S7 PROFIBUS-DP
	TI500/505
	TI500/505 V4 Compatible
TECO	TP03 (MODBUS RTU)
Telemecanique	TSX Micro
	T series / V series (T compatible) T series / V series (T compatible) (Ethernet UDP/IP)
TOSHIBA	EX series
	nv series (Ethernet UDP/IP)
TOSHIBA MACHINE	TC200
	µGPCsx (OPCN-1)
TOYO DENKI	μGPCsx (SX bus)
TOYO DENKI	μGPCsx series μGPCsx CPU
	$\mu$ GPCsx series (Ethernet)
TURCK	BL Series Distributed I/O (MODBUS TCP/IP)
Ultra Instruments	UIC CPU (MODBUS ASCII)
UNITRONICS	M90/M91/Vision Series (ASCII)
1000	Vision Series (ASCII Ethernet TCP/IP)
VIGOR	M series 750 series (MODBUS RTU)
WAGO	750 series (MODBUS Ethernet)
XINJE	XC Series (MODBUS RTU)
	MEMOBUS
	CP9200SH/MP900
Yaskawa Electric	CP/MP EXPANSION MEMOBUS (UDP/IP) MP2000 series
	MP2000 series(UDP/IP)
	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)
Yokogawa Electric	FA-M3/FA-M3R (Ethernet ODP/IP ASCII) 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 FL-Net
	PROFIBUS-DP
	DeviceNet
	Without PLC connection
	MODBUS RTU
	MODBUS RTU EXT Format
Others	MODBUS TCP/IP (Ethernet)
	MODBUS TCP/IP (Ethernet)Sub Station
	MODBUS TCP/IP (Ethernet) EXT Format MODBUS ASCII
	MODBUS ASCII MODBUS slave (RTU)
	MODBUS slave (TCP/IP)
	MODBUS slave (ASCII)

#### Temperature Controllers, Servos and Inverters

Maker	Temperature Cotroller/Servo/Inverter	
A&D	AD4402 (MODBUS RTU)	
Agilent	AD4404 (MODBUS RTU) 4263 Series	
	SDC10	
	SDC15	
	SDC20	
	SDC21 SDC25/26	
	SDC25/26 SDC30/31	
	SDC35/36	
	SDC45/46	
Azbil	SDC40A	
	SDC40G DMC10	
	DMC50 (COM)	
	AHC2001	
	AHC2001+DCP31/32	
	DCP31/32	
	NX (CPL) NX (MODBUS RTU)	
	NX (MODBUS TCP/IP)	
Banner	Presense PLUS (Ethernet/IP (TCP/IP) )	
Bosch Rexroth	IndraDrive	
	LT400 Series (MODBUS RTU)	
	DP1000 DB1000B (MODBUS RTU)	
CHINO	KR2000 (MODBUS RTU)	
	LT230 (MODBUS RTU)	
	LT300 (MODBUS RTU)	
	LT830 (MODBUS RTU)	
DELTA TAU DATA SYSTEMS	PMAC	
	PMAC (Ethernet TCP/IP) 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)	
	FRENIC5000G11S/P11S FRENIC5000G11S/P11S (MODBUS RTU)	
	FRENIC5000VG7S (MODBUS RTU)	
	FRENIC-HVAC/AQUA (MODBUS RTU)	
	FRENIC-Mini (MODBUS RTU)	
	FRENIC-Ace (MODBUS RTU)	
	FRENIC-Eco (MODBUS RTU) FRENIC-Multi (MODBUS RTU)	
Fuji Electric	FRENIC MEGA (MODBUS RTU)	
	FRENIC MEGA SERVO (MODBUS RTU)	
	FRENIC-VG1 (MODBUS RTU)	
	FRENIC Series (Loader)	
	HFR-C9K HFR-C11K	
	HFR-K1K	
	PPMC (MODBUS RTU)	
	FALDIC-alpha 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)	
Gammaflux	TTC2100	
Hitachi Industrial	SJ300 series	
Equipment Systems	SJ700 series	
	X-SEL controller ROBO CYLINDER (RCP2/ERC)	
IAI	ROBO CYLINDER (RCS/E-CON)	
	PCON/ACON/SCON(MODBUS RTU)	

#### Temperature Controllers, Servos and Inverters

Maker	Temperature Cotroller/Servo/Inverter
KOGANEI	IBFL-TC
Lenze	ServoDrive9400 (Ethernet TCP/IP)
	FR-*500
MITSUBISHI ELECTRIC	FR-V500
	MR-J2S-*A
	MR-J3-*A
	MR-J3-*T
	FR-E700
MOOG	J124-04x series
M-SYSTEM	R1M series (MODBUS RTU)
	E5AK
	E5AK-T
	E5AN/E5EN/E5CN/E5GN
	E5AR/E5ER
	E5CK
	E5CK-T
	E5CN-HT
OMRON	E5EK
	E5ZD
	E5ZE
	E5ZN
	V600/620/680
	KM20
	KM100
	V680S (Ethernet TCP/IP)
Orientalmotor	High-efficiency AR Series (MODBUS RTU)
	CRK Series (MODBUS RTU)
	MINAS A4 Series
Panasonic	LP-400
	KW Series
	SR-Mini (MODBUS RTU)
	CB100/CB400/CB500/CB700/CB900 (MODBUS RTU)
	SR-Mini (Standard Protocol)
RKC	REX-F400/F700/F900 (Standard Protocol)
	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)
SHARP	DS-30D
SHIMADEN	DS-32D
SHIWADEN	SHIMADEN standard protocol
	C Series
	FC Series
	GC Series DCL-33A
SHINKO TECHNOS	JCx-300 Series PC-900
	PC-900 PCD-33A
	ACS-13A
	ACS-13A ACD/ACR Series
	WCL-13A
Siemens	S120 (Ethernet ISOTCP)
SUS	XA-A*
	ХА-А ТТМ-000
тоно	TTM-00BT
TUHU	TTM-00B1 TTM-200 (MODBUS RTU)
TOKYO CHOKOKU PRODUCTS	MB3315/1010
	VF-S7
TOSHIBA	VF-57 VF-59
	VF-53
	VF-S11 VF-S15
	VF-315 VF-A7
	VF-A7 VF-AS1
	VF-A31 VF-P7
	VF-PS1
	VF-FS1 VF-FS1
	VF-FS1 VF-MB1
	VF-NBT VF-nC1
	VF-nC1 VF-nC3
	COILE IN
	VELCONIC series
	VELCONIC series
TOSHIBA MACHINE ULVAC	G-TRAN series

Maker	Temperature Cotroller/Servo/Inverter	
UNIPULSE	F800	
	F805A	
YAMAHA	RCX142	
	UT100	
	UT750	
	UT550	
	UT520	
	UT350	
Vakagawa Eleptria	UT320	
Yokogawa Electric	UT2400/2800	
	UT450	
	UT32A/35A (MODBUS RTU)	
	UT52A/55A (MODBUS RTU)	
	UT75A (MODBUS RTU)	
	µR10000/20000 (Ethernet TCP/IP)	
Others	MODBUS RTU	
Others	MODBUS TCP/IP (Ethernet)	