

# GP2000 SERIES

Increase your business opportunities with powerful performance and Ethernet connectivity.



















Aluminum body for superb cooling and dust resistance.

■ STN Color

■ 64 Colors

■ CF Card

Ethernet

■ 2MB FEPROM

■ 256KB SRAM

**■** Expansion SIO





- 12.1 inch
- TFT Color
- 800 x 600 pixels
- 256 Colors
- 4MB FEPROM
- 256KB SRAM
- CF Card
- Ethernet
- Expansion SIO
- Optional Video

GP-2600T

GP2600-TC11

(( FU : FU

GP2600-TC41-24V C € (UL) (UL)



- 10.4 inch
- TFT Color
- 640 x 480 pixels
- 256 Colors
- 4MB FEPROM
- 256KB SRAM
- CF Card
- Ethernet
- Expansion SIO
- Optional Video

GP-2500T

GP2500-TC11

(( FU°, FU°)

GP2500-TC41-24V C € (II) (III)

GP-2500S GP2500-SC41-24V

( **( UL** , **UL** )

■ 10.4 inch

■ STN Color

■ 64 Colors

■ CF Card

**Ethernet** 

■ 640 x 480 pixels

■ 4MB FEPROM

■ 256KB SRAM

Expansion SIO



- 10.4 inch
- Monochrome LCD
- 640 x 480 pixels
- Black & White, Gray Scale

GP-2500L

GP2500-LG41-24V

( ( (UL) (UL)

- 4MB FEPROM
- 256KB SRAM
- CF Card
- **Ethernet**
- Expansion SIO



- 7.4 inch
- TFT Color ■ 640 x 480 pixels
- 256 Colors
- 4MB FEPROM
- 256KB SRAM ■ CF Card
- Ethernet
- Expansion SIO

GP-2400T

GP2400-TC41-24V

((U): (U)



- 5.7 inch
- TFT Color ■ 320 x 240 pixels
- 256 Colors
- 2MB FEPROM
- 256KB SRAM

- CF Card

GP2300-TC41-24V

CE FUE 3)

Ethernet Expansion SIO

- - 5.7 inch
  - 5.7 inch ■ Monochrome LCD ■ 320 x 240 pixels
    - 320 x 240 pixels
    - Black & White, Gray Scale
    - 2MB FEPROM
    - 256KB SRAM
    - CF Card Ethernet
    - **■** Expansion SIO

GP-2300T GP-2300S GP-2300L

GP2300-SC41-24V

CE SUE SUE

GP2300-LG41-24V

CE SUE 31

1 GP 2000 Series

# GP2001 SERIES

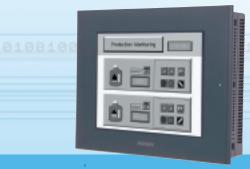
With the **Built-in CF Card I/F**, handling of production data management and screen maintenance is smooth and easy.

















Aluminum body for superb cooling and dust resistance.





- 12.1 inch
- TFT Color
- 800 x 600 pixels
- 256 Colors
- 4MB FEPROM
- 128KB SRAM
- CF Card

(E 711° 171°

GP-2601T GP2601-TC11



- 10.4 inch
- TFT Color
- 640 x 480 pixels
- 256 Colors
- 2MB FEPROM
- 128KB SRAM

■ CF Card

GP-2501T GP2501-TC11

(E 711°, 711°)



- 10.4 inch
- STN Color
- 640 x 480 pixels
- 64 Colors
- 2MB FEPROM
- 128KB SRAM
- CF Card

GP-2501S

GP2501-SC11

(E PU : FU



- 10.4 inch
- Monochrome LCD
- 640 x 480 pixels
- Black & White, Gray Scale
- 2MB FEPROM
- 128KB SRAM
- CF Card

GP-2501L GP2501-LG41-24V

( **( U)** (**U)** 



- 7.4 inch
- TFT Color ■ 640 x 480 pixels
- 256 Colors
- 2MB FEPROM
- 128KB SRAM ■ CF Card

GP-2401T GP2401-TC41-24V

( **( U)** (**U)** 



■ 5.7 inch

■ 1MB FEPROM

(ERIP)

- TFT Color
- 320 x 240 pixels ■ 256 Colors
- - 128KB SRAM ■ CF Card

GP-2301 GP2301-TC41-24V



- 5.7 inch
- STN Color
  - 320 x 240 pixels ■ 64 Colors
  - 1MB FEPROM
  - 128KB SRAM ■ CF Card
    - 128KB SRAM ■ CF Card

GP-23011 GP-2301S

GP2301-SC41-24V GP2301-LG41-24V

(E PU : PU

■ 5.7 inch

■ Monochrome LCD

■ Black & White, Gray Scale

■ 320 x 240 pixels

■ 1MB FEPROM

GP2000H Series — Designed to meet global safety standards —



- 6.5 inch ■ TFT Color
- 640 x 480 pixels
- 256 Colors ■ 2MB FEPROM ■ 128KB SRAM
- CF Card ■ Tool Connector
- Vibration Function
- 3-position Enable Switch ■ 3-contact Emergency Switch



- 5.7 inch STN Color ■ 320 x 240 pixels
- 64 Colors ■ 1MB FEPROM ■ 128KB SRAM
- CF Card ■ Tool Connector
- Vibration Function
  - 3-position Enable Switch ■ 3-contact Emergency Switch



- 5.7 inch
- Monochrome LCD
- 320 x 240 pixels ■ Black & White, Gray Scale
- 1MB FEPROM ■ 128KB SRAM
- CF Card ■ Tool Connector

(E 911° 1911°

- Vibration Function ■ 3-position Enable Switch
- 3-contact Emergency Switch

GP-2301HL ( • • • • • GP2301H-LG41-24V



GP-2401HT ( ( ( ( ) ( ) ) GP2401H-TC41-24V













3 GP 2001 SERIES GP 2001 SERIES 4

# GP 2600/2601 series

**Ethernet Model** 

**SYSTEM DESIGN** 

**Expansion Unit Interface** (1)

3 Expansion Unit Interface (2)

PSM-CONV00

□ ■ Video-Mix Unit

Printer Interface

Bus Conversion Unit Communication Unit

Bus Conversion Unit Communication Unit

1 Ethernet Interface



GP-Viewer PSW-GV01-V\*\*

Communication Unit

Video Camera

**GP-PRO/PBIII C-Package** 

Pro-Server with Pro-Studio
PSW-ED01-V\*\*

\* See page 24 for information on connectable interface units.
The color of each frame
indicates the connectability of

**GP-2600T** 

**INTERFACES** 

GP2600 Series Only.

GP2600 and GP2601 Series



**GP-2601T** 

### **FUNCTIONAL SPECIFICATIONS**

Мо	odel	GP2600-TC11 GP2600-TC41-24V			
Displ	lay Type	TFT Color LCD			
Displ	lay Colors	256 colors *1			
Backlight		User replaceable CCFL (Service life: 50,000 hrs. at 25°C and 24hr. operation)			
Displ	lay Resolution	800 x 600 pixels			
	ctive Display Area	W246mm [9.69in.] x H184.5mm [7.26in.]			
Brigh	ntness Control	4 levels of adjustment available via touch panel			
Lang	juage Fonts	ASCII: (Code page 850) Alphanumeric (including European characters) Chinese: (GB2312-80 codes) simplified Chinese fonts Japanese: ANK 158, Kanji: 6962 (JIS Standards 1 and 2) Korean: (KSC5601-1992 codes) Hangul fonts Taiwanese: (Big 5 codes) traditional Chinese fonts			
	8 x 8 dots	100 Char. x 75 rows			
×	8 x 16 dots	100 Char. x 37 rows			
Text	16 x 16 dots	50 Char. x 37 rows			
	32 x 32 dots	25 Char. x 18 rows			
Char	acter Sizes*2	8 x 8 dot font, 8 x 16 dot font, 16 x 16 dot font, 32 x 32 dot font			
Font	Sizes	Width: 1~8 times expandable / Height: 1/2*3, 1~8 times expandable			
Touc	h Panel Resolution	40 x 30 keys / screen - 1 or 2 point touch			
Oper	ration Status LED	Green : Normal Operation; Orange : Backlight Burn-out			
È	Application	4MB FEPROM (Approx. 1280 screens at 3.2KB/screen)			
Memory	Data Backup	256KB SRAM — uses a lithium battery*4			
Serial Interface (COM1)		Asynchronous Transmission : RS-232C/RS-422 Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, Odd or Even Data Transmission Speed: 2,400bps to 115,2kbps (MPI: 187.5kbps)*5			
Expa (COI	nsion Serial Interface M2)	Asynchronous Transmission : RS-232C Data Length : 7 or 8 bits Stop Bit : 1 or 2 bits Parity : None, Odd or Even Data Transmission Speed : 2,400 bps to 38.4kbps			
Ехра	Insion Unit Interface 1	1ch, for Optional Communication Unit Connection			
Expa	Insion Unit Interface 2	1ch, for Optional Video-mix Unit Connection			
Ethe	rnet Interface	IEEE802.3, 10BASE-T			
Tool	Connector Interface	Asynchronous TTL level nonprocedural command I/F <pre> <during 2-port="" <pre="" and="" application="" data="" developments="" feature.="" file="" for="" from="" gp="" gp.="" screen="" software="" the="" to="" transfer="" transferring="" used="" with=""> <during operations<="" pre="">     Used for a variety of devices, including a bar-code reader.</during></during></pre>			
CF C	Card Interface	1 slot (CompactFlash™)			
CF C	ard Expansion Interface	CF Card Front Maintenance Unit Connector			
Print	er Interface	Compatible with NEC PC-PR201/PL , EPSON ESC/P24-J84(C), HP Laser Jet PCL 4 command, EPSON PM/Stylus (6-color ink), EPSON Stylus (4-color ink) compatible printers*6			
AUX	Input/Output	Remote Reset Input:1 point Input Outrent: 4mA (TYP), Min. Input Pulse Width:2ms Operating Voltage: (When ON) Min. DC21.2V, (When OFF) Max. DC3V Isolation Method: Photocoupler Isolation Output -3 Points: RUN Output -1 point, System Alarm Output -1 point, External Buzzer Output -1 point Rated Voltage: DC24V Rated Voltage: DC24V Rated Current: 50mA/point Wire Gauge: AWG28 to AWG16			
Sour	nd Output	External Speaker Connection (Terminal Block) Monaural 1CH Speaker Output: 70mW (Rated Load: 8W, Frequency: 1kHz) Sound Line Out Output: 2.7Vp-p (Rated Load: 10kW)			

Model	GP2601-TC11				
Display Type	TFT Color LCD				
Display Colors	256 colors *1				
Backlight	User replaceable CCFL (Service life: 50,000 hrs. at 25°C and 24hr. operation)				
Display Resolution	800 x 600 pixels				
Effective Display Area	W246mm [9.69in.] x H184.5mm [7.26in.]				
Brightness Control	4 levels of adjustment available via touch panel				
Language Fonts	ASCII: (Code page 850) Alphanumeric (including European characters) Chinese: Japanese: ANK 158, Kanji: 6962 (JIS Standards 1 and 2) Korean: (KSC5601-1992 codes) Hanguid forts Taiwanese: (Big 5 codes) traditional Chinese fonts				
8 x 8 dots	100 Char. x 75 rows				
8 x 16 dots	100 Char. x 37 rows				
⊢ 16 x 16 dots	50 Char. x 37 rows				
32 x 32 dots	25 Char. x 18 rows				
Character Sizes*2	8 x 8 dot font, 8 x 16 dot font, 16 x 16 dot font, 32 x 32 dot font				
Font Sizes	Width: 1~8 times expandable / Height: 1/2*3, 1~8 times expandable				
Touch Panel Resolution	40 x 30 keys / screen - 1 or 2 point selectable				
Operation Status LED	Green: Normal Operation; Orange: Backlight Burn-out				
Application  Data Backup	4MB FEPROM (Approx. 1280 screens at 3.2KB/screen)				
Data Backup	128KB SRAM — uses a lithium battery*4				
Serial Interface (COM1)	Asynchronous Transmission : RS-232C/RS-422 Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, Odd or Even Data Transmission Speed: 2,400bps to 115,2kbps (MPI: 187.5kbps)*5				
Tool Connector Interface	Asynchronous TTL level nonprocedural command I/F <during 2-port="" <during="" and="" application="" data="" development="" feature.="" file="" for="" from="" gf="" gp="" operation="" screen="" software="" the="" to="" transfer="" transferring="" used="" with=""> Used for a variety of devices, including a bar-code reader.</during>				
CF Card Interface	1 slot (CompactFlash™)				
Printer Interface	Compatible with NEC PC-PR201/PL, EPSON ESC/P24-J84(C), HP Laser Jet PCL 4 command, EPSON PM/Stylus (6-color ink), EPSON Stylus (4-color ink) compatible printers*6				
AUX Input/Output *7	Remote Reset Input:1 point Input Voltage: DC24V+-10%, Input Current: 4mA (TYP), Min. Input Pulse Width:2ms Operating Voltage: (When ON) Min. DC21.2V, (When OFF) Max. DC3V Isolation Method: Photocoupler Isolation Output-3 Points: RUN Output-1 point, System Alarm Output-1 point, External Buzzer Output-1 point Rated Voltage: DC24V, Rated Current: 50mA/point Wire Gauge: AWG28 to AWG16				

\*2 The font size varies depending on selected language and enlargement ratio.
\*3 Only available when using "12 5 Byte Character' settings via software. (Only Japanese, Chinese, Taiwanese, and Korean characters)
\*4 A Lithium battery's lifetime is:
\*1 0 years when the battery's ambient temperature is 40°C or less.
\*1 1 years when the battery's ambient temperature is 50°C or less.
\*1.5 years when the battery's ambient temperature is 50°C or less.
\*Nen used for back up:
\*Approximately 60 days, with a fully charged battery.
\*Approximately 60 days, with a half-charged battery.
\*SIEMENS SIMATIC S7-20030/400 series (MPH port only).
\*Please contact your Pro-face sales representative for supported models and other details.
\*Please contact your Pro-face sales representative for supported models and other details.
\*Using the AUX Input/Output I/F requires the separately sold Screw Lock Terminal Block.

#### **GENERAL SPECIFICATIONS**

M	lodel	GP2600-TC11	GP2600-TC41-24V	GP2601-TC11			
	Rated Voltage	AC100V to AC240V	DC24V	AC100V to AC240V			
	Rated Voltage Range	AC85V to AC265V	DC19.2V to DC28.8V	AC85V to AC265V			
ij	Power Consumption	50VA or less (ACIN100V) 85VA or less (ACIN240V)	50W or less	50VA or less (ACIN100V) 85VA or less (ACIN240V)			
	Allowable Voltage Drop	20ms or less	10ms or less	20ms or less			
ŭ	Voltage Endurance	AC1500V 20mA for 1 minute (between charging and FG terminals)	AC1000V 20mA for 1 minute (between charging and FG terminals)	AC1500V 20mA for 1 minute (between charging and FG terminals)			
	Insulation Resistance		10MΩ or higher at DC500V	(between charging and FG terminals)			
	Operating Temperature		0°C to	) +50°C*1			
	Storage Temperature	-20°C to +60°C					
_	Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature:39°C or less)					
iga iga	Storage Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature:39°C or less)					
me	Vibration Resistance	IEC61131-2 (JIS B 3502) compliant When vibration is NOT continuous: 10Hz to 57Hz 0.075mm, 57Hz to 150Hz 9.8m/s² When vibration is continuous: 10Hz to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times (80min.)					
viro	Noise Immunity (via noise simulator)	Noise Voltage: 1500Vp-p Pulse Duration:1 μs Arise Time: 1ns	Noise Voltage: 1000Vp-p Pulse Duration: 1 µs Arise Time: 1ns	Noise Voltage: 1500Vp-p Pulse Duration:1 μs Arise Time: 1ns			
ш	Corrosive Gasses	Free of corrosive gasses					
	Electrostatic Discharge Immunity						
	Certifications	EN55011 Class A, EN61000-3-2, EN61000-3-3, EN61000-6-2, EN60950, UL60950, UL1604	EN55011 Class A, EN61000-6-2, UL508, UL1604	EN55011 Class A, EN61000-3-2, EN61000-3-3, EN61000-6-2, EN60950, UL60950, UL1604			
	Grounding	100Ω or less, or your country's applicable standard*2					
<u>la</u>	Ratings (For front panel of installed unit)	Equivalent to IP65f (JEM 1030)*3 / NEMA#250 TYPE4 X/12					
ಕ	Cooling Method	Natural air circulation					
를	Weight			7lb) or less			
တ	External Dimensions			nm [9.57in.] x D58mm [2.28in.]			
	Panel Cutout Dimensions	301.5+	mm [11.87+8™in.] x 227.5+8mm [8.96+8™in.]	Panel thickness: 1.6mm [0.06in.] to 10mm [0.40in.])			

Printer Cable # Printer **5** AUX Interface AUX Connector Reset Switch 6 Expansion Serial Interface (COM2)

Bar-Code Reader,
2-Dimensional-Code Reader **EXTERNAL Tool Connector** (Run time) Bar-Code Reader **DIMENSIONS GP-PRO/PBIII C-Package** Unit: mm [in.] **Tool Connector** Mitsubishi GPP Software 301 [11.85] **Data Transfer Cable** When using the Internal GPW-CB02 GPW-CB03 (USB Connector) 2-Port Feature **GP-2600 8** CF Card **GP-2601** CF Card Adapter Series CA3-CFCALL/64MB-01 CA3-CFCALL/128MB-01 CA3-CFCALL/256MB-01 CA3-CFCALL/512MB-01 GP077-CFAD10 9 Sound Interface Speaker 10 Serial Interface (COM1) RS-232C Cable 301.5+0 [11.87+0.04] GP410-IS00-O **Host Controller** RS-422 Cable GP230-IS11-O GP230-IS12-O (for Multi-link cable) 4-R3 [0.12] or less Panel Cutout RS-422 Connector Terminal Adapter GP070-CN10-O Mitsubishi PLC A, QnA, 2 Port Adapter II Cable FX Series 2 Port Adapter II GP070-MDCB11 GP070-MD11 Mitsubishi PLC A-Series Program Port I/F Cable 🛚 🕌 Mitsubishi PLC FX-Series Program Port I/F Cable GP2000-CBLFX / 1M-01 GP2000-CBLFX / 5M-01

5 GP2600 Series / GP2601 Series

# GP 2500/2501 series

**Ethernet Model** 

**SYSTEM DESIGN** 

2 Expansion Unit Interface (1)

PSM-CONV00

■ ■ Video-Mix Unit GP2000-VM41 Printer Interface

5 AUX Interface

**GP-2500** 

**GP-2501** 

Series

10 Serial Interface (COM1)

GP070-CN10-O

Mitsubishi PLC A-Series Program Port I/F Cable

Mitsubishi PLC FX-Series Program Port I/F Cable

2 Port Adapter II Cable 🖥

GP2000-CBLFX / 1M-01 GP2000-CBLFX / 5M-01

GP070-MDCB11

3 Expansion Unit Interface (2)

Bus Conversion Unit Communication Unit

Bus Conversion Unit Communication Unit

AUX Connector

**Tool Connector** (Run time)

**Tool Connector** 

**Data Transfer Cable** 

8 CF Card

9 Sound Interface

RS-422 Cable GP230-IS11-O GP230-IS12-O (for Multi-link cable)

RS-422 Connector Terminal Adapter

GPW-CB02 GPW-CB03 (USB Connector)

1 Ethernet Interface



**GP-2500T** 

GP-Viewer PSW-GV01-V\*\*

Communication Unit

Video Camera

PSM-PRCB00

Printer Cable 👛

6 Expansion Serial Interface (COM2) Bar-Code Reader, 2-Dimensional-Code Reader

CF Card

CA3-CFCALL/64MB-01 CA3-CFCALL/128MB-01 CA3-CFCALL/256MB-01 CA3-CFCALL/512MB-01

RS-232C Cable

Mitsubishi PLC A, QnA,

GP070-MD11

FX Series 2 Port Adapter II

GP410-IS00-O

Speaker

**GP-PRO/PBIII C-Package** 

**Pro-Server with Pro-Studio** 



**GP-2500S** 

\* See page 24 for information on connectable interface units.
The color of each frame
indicates the connectability of

Printer

Reset Switch

Warning Light

Bar-Code Reader

**GP-PRO/PBIII C-Package** 

When using

CF Card Adapter

GP077-CFAD10

the Internal

Mitsubishi GPP

**Host Controller** 



**GP-2500L** 

**INTERFACES** 

GP2500 Series Only.

can be used.

**EXTERNAL** 

Unit: mm [in.]

**DIMENSIONS** 

301 [11.85]

317 [12.48]

301.5+1 [11.87+0.04]

Panel Cutout

4-R3 [0.12] or less

GP2500 and GP2501 Series

Cost-efficient Model





**GP-2501T GP-2501S**  **GP-2501L** 



Мо	del	GP2500-TC11 GP2500-TC41-24V	GP2500-SC41-24V	GP2500-LG41-24V		
Displ	ay Type	TFT Color LCD	STN Color LCD	Monochrome LCD		
Displ	ay Colors	256 colors *1	64 colors	Black and White or 8 Levels of Gray		
Back	light	User replaceable CCFL (Service life: CCFL (Service life: 50,000 hrs. at 25°C and 24hr. operation)  CCFL (Service life: 50,000 hrs. at 25°C and 24hr. operation)				
Display Resolution Effective Display Area			640 x 480 pixels			
			nm [8.34in.] x H158.4mm			
	tness Control	4 levels of	adjustment available via t			
	rast Adjustment	ASCII: (Code page 85	8 levels of adjustment a O Alphanumeric (including Eur	vailable via touch panel		
Lang	uage Fonts	Chinese: (GB2312-80 c Japanese: ANK 158, Kar Korean: (KSC5601-19	codes) simplified Chinese font nji: 6962 (JIS Standards 1 and 92 codes) Hangul fonts traditional Chinese fonts	s		
	8 x 8 dots		80 Char. x 60 rows			
Text	8 x 16 dots		80 Char. x 30 rows			
	16 x 16 dots		40 Char. x 30 rows			
	32 x 32 dots	O v O dot foot O · ·	20 Char. x 15 rows	nt 20 v 20 det feet		
	acter Sizes*2		16 dot font, 16 x 16 dot fo			
	Sizes h Panel Resolution		andable / Height: 1/2*3, 1 keys / screen - 1 or 2 poi			
	ration Status LED		Operation; Orange: Bac			
	Application		(Approx. 1280 screens at			
= 1	Data Backup		SRAM — uses a lithium b			
_	Il Interface	Asynchronous Transmission	on : RS-232C/RS-422			
(CON	M1)	Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, Odd or Even Data Transmission Speed: 2,400bps to 115.2kbps (MPI: 187.5kbps)*5				
(CQV	/	Asynchronous Transmission: RS-232C, Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, Odd or Even, Data Transmission Speed: 2,400 bps to 38.4kbps				
	nsion Unit Interface 1	1ch, for Optional Communication Unit Connection				
	Insion Unit Interface 2	1ch, for Optional Video-mix Unit Connection				
	rnet Interface	IEEE802.3, 10BASE-T				
1001	Connector Interface	Asynchronous TTL level nonprocedural command I/F  - During screen file developments  Used for transferring data to and from the GP application software and the GP.  Used for data transfer with the 2-Port feature.  - During Operation>  Used for a variety of devices, including a bar-code reader.				
CF C	ard Interface		1 slot (CompactFlash™)			
	ard Expansion Interface		Front Maintenance Unit C			
Printe	er Interface	Compatible with NEC PC-PR201/PL , EPSON ESC/P24-J84(C), HP Laser Jet PCL 4 command, EPSON PM/Stylus (6-color ink), EPSON Stylus (4-color ink) compatible printers *6				
	Input/Output	Remote Reset Input: 1 point Input Voltage: DC24V+-10%, Input Current: 4mA (TYP), Min. Input Pulse Width:2ms Operating Voltage: (When ON) Min. DC21:2V, (When OFF) Max. DC3V Isolation Method: Photocoupler Isolation Output -3 Points: RUN Output -1 point, System Alarm Output -1 point, External Buzzer Output -1 point Rated Voltage: DC24V Rated Current: 50mA/point Wire Gauge: AWG28 to AWG16				
Soun	nd Output	Monaural 1CH Speaker Output: 70r	ection (Terminal Block) mW (Rated Load: 8W, Fre put: 2.7Vp-p (Rated Load	equency: 1kHz) : 10kW)		

	del	GP2501-TC11	GP2501-SC11	GP2501-LG41-24V			
Displ	ау Туре	TFT Color LCD	STN Color LCD	Monochrome LCD			
Displ	ay Colors	256 colors *1	64 colors	Black and White or 8 Levels of Gray			
Back	light	User replaceable ( 50,000 hrs. at 25°C	CCFL (Service life: and 24hr. operation)	CCFL (Service life: 50,000 hrs at 25°C and 24hr. Operation)			
Displ	ay Resolution		640 x 480 pixels				
Effec	tive Display Area	W211.2m	nm [8.34in.] x H158.4mm	[6.24in.]			
Brigh	tness Control	4 levels of a	adjustment available via t	ouch panel			
	rast Adjustment			available via touch panel			
Lang	uage Fonts	Chinese: (GB2312-80 c Japanese: ANK 158, Kan Korean: (KSC5601-199	Alphanumeric (including Eurodes) simplified Chinese fontigi: 6962 (JIS Standards 1 and 2 codes) Hangul fonts traditional Chinese fonts	S			
	8 x 8 dots		80 Char. x 60 rows				
Text	8 x 16 dots		80 Char. x 30 rows				
Ŧ.	16 x 16 dots	40 Char. x 30 rows					
	32 x 32 dots		20 Char. x 15 rows				
Char	acter Sizes*2		6 dot font, 16 x 16 dot fo				
	Sizes	Width: 1~8 times expandable / Height: 1/2*3, 1~8 times expandable					
	h Panel Resolution	32 x 24 keys / screen - 1 or 2 point selectable					
-	ation Status LED	Green: Normal Operation; Orange: Backlight Burn-out					
mony	Application	2MB FEPROM (Approx. 640 screens at 3.2KB/screen)					
Mem	Data Backup	128KB SRAM — uses a lithium battery*4 Asynchronous Transmission : RS-232C/RS-422					
(COI	,	Asynchronous Iransmission: R5-232C/HS-422 Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, Odd or Even Data Transmission Speed: 2,400bps to 115.2kbps (MPI: 187.5kbps)*5					
Tool	Connector Interface	Asynchronous TTL level nonprocedural command I/F - During screen file development> Used for transferring data to and from the GP application software and the GP. Used for data transfer with the 2-Port feature During Operation> Used for a variety of devices, including a bar-code reader.					
	ard Expansion Interface		1 slot (CompactFlash™)				
	er Interface	Compatible with NEC PC-PR201/PL , EPSON ESC/P24-J84(C), HP Laser Jet PCL 4 command, EPSON PM/Stylus (6-color ink), EPSON Stylus (4-color ink) compatible printers*6					
AUX	Input/Output *7	Operating Voltage: (W Isolation Method: Pho Output -3 Points: RUN O	10%, Input Current: 4mA (TYP /hen ON) Min. DC21.2V, ( tocoupler Isolation utput -1 point, System Alar al Buzzer Output -1 point int	When OFF) Max. DC3V			

use the blinking feature, select "64 colors".

2 The fort size varies depending on selected language and enlargement rati.

3 Only available when using "12 2 Byte Character' settings via software. (Only Japan

4 A Lithium battery's lifetime is.

4 A Lithium battery's ambient temperature is 40°C or less.

4 years when the battery's ambient temperature is 50°C or less.

4 years when the battery's ambient temperature is 50°C or less.

4 years when the battery's ambient temperature is 50°C or less.

4 years when the battery's ambient temperature is 50°C or less.

4 years when the battery's ambient temperature is 50°C or less.

5 Hand of the selection of the selecti

GENERAL	SPECIFICA	HONS
Medel	CB2500 TC11	CD2500 TC44

M	odel	GP2500-TC11	GP2500-TC41-24V	GP2500-SC41-24V	GP2500-LG41-24V	GP2501-TC11	GP2501-SC11	GP2501-LG41-24V		
	Rated Voltage	AC100V to AC240V	DC24V		AC100V to AC240V		DC24V			
ctrical	Rated Voltage Range	AC85V to AC265V		DC19.2V to DC28.8V		AC85V to	o AC265V	DC19.2V to DC28.8V		
	Power Consumption	50VA or less (ACIN100V) 85VA or less (ACIN240V)		50W or less		50VA or less 85VA or less	s (ACIN100V) s (ACIN240V)	50W or less		
	Allowable Voltage Drop	20ms or less		10ms or less		20ms	or less	10ms or less		
읣	Voltage Endurance	AC1500V 20mA for 1 minute (between charging and FG terminals)		AC1000V 20mA for 1 minu between charging and FG termina		AC1500V 20n (between charging	nA for 1 minute g and FG terminals)	AC1000V 20mA for 1 minut (between charging and FG terminal		
	Insulation Resistance	$10M\Omega$ or higher at DC500V (between charging and FG terminals)								
	Operating Temperature				0°C to +50°C*1					
	Storage Temperature	-20°C to +60°C								
_[	Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature:39°C or less)								
15	Storage Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature:39°C or less)								
nme	Vibration Resistance	IEC61131-2 (JIS B 3502) compliant When vibration is NOT continuous: 10Hz to 57Hz 0.075mm, 57Hz to 150Hz 9.8m/s² When vibration is continuous: 10Hz to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times to 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times to 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times to 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times to 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times to 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times to 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times to 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times to 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times to 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times to 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times to 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times to 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times to 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times to 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times to 57Hz								
viro	Noise Immunity (via noise simulator)	Noise Voltage: 1500Vp-p Pulse Duration: 1 µs Arise Time: 1ns	Pulse	Noise Voltage: 1000Vp-p Duration: 1 µs Arise Tim	ne: 1ns	Noise Voltag Pulse Duration: 1	ge: 1500Vp-p is Arise Time: 1ns	Noise Voltage: 1000Vp-p Pulse Duration: 1 µs Arise Time:		
ш	Corrosive Gasses	Free of corrosive gasses								
ı	Electrostatic Discharge Immunity	6kV (complies with EN 61000-4-2 Level 3)								
	Certifications	EN55011 Class A, EN61000-3-2, EN61000-3-3, EN61000-6-2, EN60950, UL60950, UL1604	EN55011 (	Class A, EN61000-6-2, UL5	508, UL1604		1000-3-2, EN61000-3-3, 950, UL60950, UL1604	EN55011 Class A, EN61000-6-2, UL508, UL16		
	Grounding			100Ω or less,	or your country's applicab	le standard*2				
<u>a</u>	Ratings (For front panel of installed unit)	Equivalent to IP65f (JEM 1030)*3 / NEMA#250 TYPE4 X/12								
륑	Cooling Method	Natural air circulation								
	Weight				3.5kg (7.7lb) or less					
လ	External Dimensions				8in.] x H243mm [9.57in.] x D					
	Panel Cutout Dimensions		301.5+₃mn	n [11.87+8⊶in.] x 227.5+₄mr	n [8.96+8™ in.] (Panel thickne	ss: 1.6mm [0.06in.] to 10m	nm [0.40in.])			

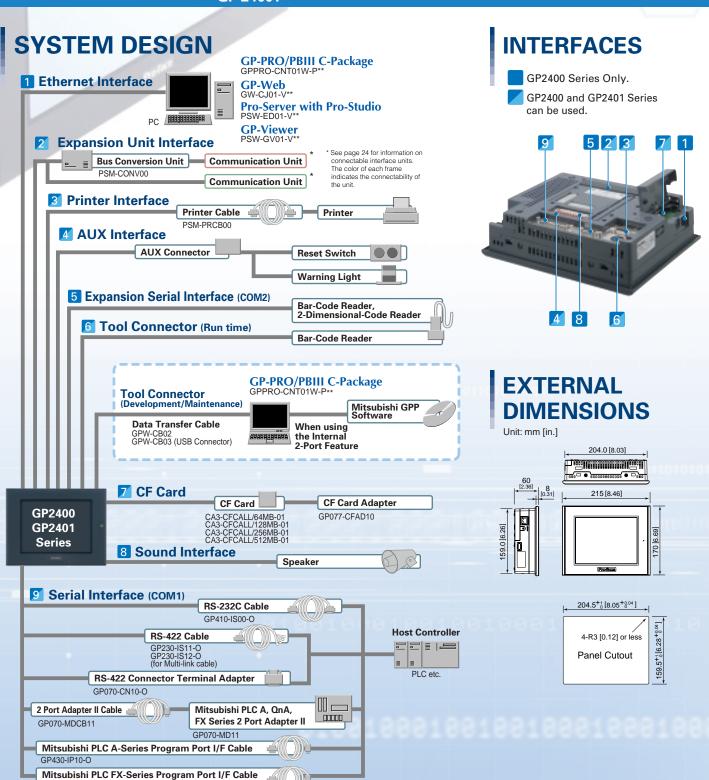
7 GP2500 Series / GP2501 Series

# GP 2400/2401 Series

**Ethernet Model** 



**GP-2400T** 



Cost-efficient Model



**GP-2401T** 

#### **FUNCTIONAL SPECIFICATIONS**

Mc	odel	GP2400-TC41-24V		
Disp	lay Type	TFT Color LCD		
Disp	olay Colors	256 colors *1		
Backlight		User replaceable CCFL (Service life: 50,000 hrs. at 25°C and 24hr. operation)		
Display Resolution		640 x 480 pixels		
Effe	ctive Display Area	W149.8mm [5.90in.] x H112.3mm [4.42in.]		
Brigh	htness Control	4 levels of adjustment available via touch panel		
Lang	guage Fonts	ASCII: (Code page 850) Alphanumeric (including European characters Chinese: (GB2312-80 codes) simplified Chinese fonts Japanese: ANK 158, Kanji: 6962 (JIS Standards 1 and 2) Korean: (KSC5601-1992 codes) Hangul fonts Talwanese: (Big 5 codes) traditional Chinese fonts		
	8 x 8 dots	80 Char. x 60 rows		
×	8 x 16 dots	80 Char. x 30 rows		
Text	16 x 16 dots	40 Char. x 30 rows		
	32 x 32 dots	20 Char. x 15 rows		
Chai	racter Sizes*2	8 x 8 dot font, 8 x 16 dot font, 16 x 16 dot font, 32 x 32 dot font		
Font	t Sizes	Width: 1~8 times expandable / Height: 1/2*3, 1~8 times expandable		
	ch Panel Resolution	32 x 24 keys / screen - 1 or 2 point touch		
Ope	ration Status LED	Green : Normal Operation; Orange : Backlight Burn-out		
ý(	Application	4MB FEPROM (Approx. 1280 screens at 3.2KB/screen)		
Je W	Data Backup	256KB SRAM — uses a lithium battery*4		
	al Interface	Asynchronous Transmission : RS-232C/RS-422		
(COI		Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, Odd or Even Data Transmission Speed: 2,400 bps to 115.2kbps (MPI: 187.5kbps)*5  Asynchronous Transmission: RS-232C  Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, Odd or Even Data Transmission Speed: 2,400 bps to 38.4kbps		
Expa (COI	ansion Serial Interface M2)			
Ethe	ernet Interface	IEEE802.3, 10BASE-T		
Tool	Connector Interface	Asynchronous TTL level nonprocedural command I/F <during 2-port="" <during="" a="" and="" application="" bar-code="" c="" data="" development="" devices,="" feature.="" file="" for="" from="" gp="" including="" of="" operation="" reader.<="" screen="" software="" td="" the="" to="" transfer="" transferring="" used="" variety="" with=""></during>		
CF (	Card Interface	1 slot (CompactFlash™)		
Print	ter Interface	Compatible with NEC PC-PR201/PL, EPSON ESC/P24-J84(C), HP Laser Jet PCL 4 command, EPSON PM/Stylus (6-color ink), EPSON Stylus (4-color ink) compatible printers*6		
AUX Input/Output		Remote Reset Input: 1 point Input Ourrent: 4mA (TYP), Min. Input Pulse Width:2ms Operating Voltage: (When ON) Min. DC21.2V, (When OFF) Max. DC3V Isolation Method: Photocoupler Isolation Output: 3 Points: RUN Output: 1 point, System Alarm Output: 1 point, External Buzzer Output: 1 point Rated Voltage: DC24V Rated Current: 50mA/point Wire Gauge: AWG28 to AWG16		
Sound Output		External Speaker Connection (Terminal Block) Monaural 1CH Speaker Output: 70mW (Rated Load: 8W, Frequency: 1kHz) Sound Line Out Output: 2.7Vp-p (Rated Load: 10kW)		

		GP2401-TC41-24V			
Disp	lay Type	TFT Color LCD			
Disp	lay Colors	256 colors *1			
Backlight		User replaceable CCFL (Service life: 50,000 hrs. at 25°C and 24hr. operation)			
Display Resolution		640 x 480 pixels			
	ctive Display Area	W149.8mm [5.90in.] x H112.3mm [4.42in.]			
Brigh	ntness Control	4 levels of adjustment available via touch panel			
Lang	guage Fonts	ASCII: (Code page 850) Alphanumeric (including European characters Chinese: (GB2312-86 codes) simplified Chinese tonts Japanese: ANK 158, Kanji: 6962 (JIS Standards 1 and 2) Korean: (KSC5601-1992 codes) Hangul fonts Taiwanese: (Big 5 codes) traditional Chinese fonts			
	8 x 8 dots	80 Char. x 60 rows			
×	8 x 16 dots	80 Char. x 30 rows			
Text	16 x 16 dots	40 Char. x 30 rows			
	32 x 32 dots	20 Char. x 15 rows			
	racter Sizes*2	8 x 8 dot font, 8 x 16 dot font, 16 x 16 dot font, 32 x 32 dot font			
	Sizes	Width: 1~8 times expandable / Height: 1/2*3, 1~8 times expandable			
	ch Panel Resolution	32 x 24 keys / screen - 1 or 2 point selectable			
	ration Status LED	Green: Normal Operation; Orange: Backlight Burn-out			
Метолу	Application	2MB FEPROM (Approx. 640 screens at 3.2KB/screen)			
₩	Data Backup	128KB SRAM — uses a lithium battery*4			
Seria (COI	al Interface M1)	Asynchronous Transmission : RS-232C/RS-422 Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, Odd or Even Data Transmission Speed: 2,400bps to 115.2kbps (MPI: 187.5kbps)*5			
Tool	Connector Interface	Asynchronous TTL level nonprocedural command I/F <ul> <li>During screen file developments</li> <li>Used for transfering data to and from the GP application software and the GP.</li> <li>Used for data transfer with the 2-Port feature.</li> <li>During Operations</li> <li>Used for a variety of devices, including a bar-code reader.</li> </ul>			
CF C	Card Interface	1 slot (CompactFlash™)			
Print	er Interface	Compatible with NEC PC-PR201/PL, EPSON ESC/P24-J84(C), HP Lase Jet PCL 4 command, EPSON PM/Stylus (6-color ink), EPSON Stylus (4-color ink) compatible printers*6			
AUX	Input/Output *7	Remote Reset Input:1 point Input Voltage: C244V+10%, Input Current: 4mA (TYP), Min. Input Pulse Width:2ms Operating Voltage: (When ON) Min. DC21.2V, (When OFF) Max. DC3V Isolation Method: Photocoupler Isolation Output -3 Points: RUN Output -1 point, System Alarm Output -1 point, External Buzzer Output -1 point Rated Voltage: DC24V Rated Current: 50mA/point Wire Gauge: AWG28 to AWG16			

use the blinking feature, select '64 colors'.

'27 The forth size varies depending on selected language and enlargement ratio.

'38 Only available when using "1/22 Byte Character' settings via software. (Only Japanese, Chinese, Taiwanese, and Korean characters)

'4 Lithium battery's litefaire is:

• 10 years when the battery's ambient temperature is 40°C or less.

• 1.5 years when the battery's ambient temperature is 50°C or less.

When used for back up:

• Approximately 60 days, with a fully charged battery.

• Approximately 60 days, with a fully charged battery.

\* SISIMENS SIMATIC 57-200/300/400 series (MPI port only).

Please contact your Pro-face sales representative for supported models and other details.

'6 Printers with only Windows drivers cannot be used. However, certain types of printers with both Windows and DOS drivers can be used. For details, contact your local GP distributor.

'7 Using the AUX Input/Output I/F requires the separately sold Screw Lock Terminal Block.

#### **GENERAL SPECIFICATIONS**

Model		GP2400	-TC41-24V		GP2401-TC41-24V			
Rated Volt	tage			DC2	24V			
Rated Volt	tage Range	DC19.2V to DC28.8V						
Power Co	nsumption	28W or less						
Allowable Drop	Voltage		or less					
은 Voltage Ei	ndurance		AC1000V 20mA for 1 m	ninute (betv	ween charging and FG terminals)			
Insulation	Resistance		10MΩ or higher at DC5	500V (betw	veen charging and FG terminals)			
	Temperature			0°C to	+50°C			
	emperature	-20°C to +60°C						
Humidity			10%RH to 90%RH (Non-c	ondensing	g, wet bulb temperature:39°C or less)			
Storage H	lumidity		10%RH to 90%RH (Non-c	ondensing	g, wet bulb temperature:39°C or less)			
E	Resistance	IEC61131-2 (JIS B 3502) compliant	When vibration is NOT continuous: When vibration is continuous:	10Hz to 10Hz to	57Hz 0.075mm, 57Hz to 150Hz 9.8m/s <sup>2</sup> 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s <sup>2</sup> X, Y, Z directions for 10 times (80min.)			
Noise Imm	nunity simulator)	Noise Voltage: 1000Vp-p Pulse Duration: 1 µs Arise Time: 1ns						
ப் Corrosive			Fr	ee of corro	osive gasses			
Electrostatic [	Discharge Immunity		6kV (comp	lies with El	N 61000-4-2 Level 3)			
Certification	ns	EN55011 Class A, EN61000-6-2, UL508, UL1604						
Grounding			100Ω or less, or	your coun	try's applicable standard*1			
	nel of installed unit)			,	0)* <sup>2</sup> / NEMA#250 TYPE4 X/12			
ਰ Cooling M	lethod			Natural air	circulation			
₩eight					ilb) or less			
(External D	Dimensions				n [6.69in.] x D60mm [2.36in.]			
Panel Cuto	out Dimensions	204	.5 <sup>+</sup> \$mm [8.05 <sup>+</sup> \$ <sup>∞</sup> in.] x 159.5 <sup>+</sup> \$ <sup>†</sup> mm [6.	.28 +8™in.] (	(Panel thickness: 1.6mm [0.06in.] to 10mm [0.40in.])			

13 Chrounding requirements differ more country to country. See sure to confirm you were their mercularements prior to installation. For more information, please contact your Pro-lace distributor.

2 The degree of protection provided by these products is epiculated in 1965 in your work environment. Be usual to the provided by the product is expended in the provided by the provided by the product is expended in the provided by the provided by the product is expended in the provided by the p

9 GP2400 Series / GP2401 Series GP2400 Series / GP2401 Series 10

# GP2300/2301 series



**SYSTEM DESIGN** 

1 Ethernet Interface







**GP-2300T** 

**GP-2300S** 

GP-PRO/PBIII C-Package
GPPRO-CNT01W-P\*\*

Pro-Server with Pro-Studio
PSW-ED01-V\*\*

GP-Web GW-CJ01-V\*\*

**GP-2300L** 

**INTERFACES** 

GP2300 Series Only.

can be used.

GP2300 and GP2301 Series

**Cost-efficient Model** 







**GP-2301T** 

**GP-2301S** 

**GP-2301L** 

#### **FUNCTIONAL SPECIFICATIONS**

Mo	odel	GP2300-TC41-24V	GP2300-SC41-24V	GP2300-LG41-24V		
	lay Type	TFT Color LCD	STN Color LCD	Monochrome LCD		
Disp	lay Colors	256 colors *1	64 colors	Black and White or 8 Levels of Gray		
Back	klight	CCFL (Service life: 50,000 hrs. at 25 °C and 24hr. operation)	(Service life	eable CCFL : 50,000 hrs. !4hr. operation)		
Disp	lay Resolution		320 x 240 pixels	· · ·		
Effec	ctive Display Area	W115.2r	nm [4.54in.] x H86.4mm	[3.40in.]		
Brigh	htness Control	4 levels of a	adjustment available via t	ouch panel		
Cont	trast Adjustment		8 levels of adjustment a	vailable via touch panel		
Lang	guage Fonts	ASCII: (Code page 850) Alphanumeric (including European characters) Chinese: (GB2312-80 codes) simplified Chinese fonts Japanese: ANK 158, Kanji: 6962 (JIS Standards 1 and 2) Korean: (KSC5601-1992 codes) Hangul fonts Taiwanese: (Big 5 codes) traditional Chinese fonts				
	8 x 8 dots	40 Char. x 30 rows				
×	8 x 16 dots	40 Char. x 15 rows				
Text	16 x 16 dots	20 Char. x 15 rows				
	32 x 32 dots	10 Char. x 7 rows				
Chai	racter Sizes*2	8 x 8 dot font, 8 x 16 dot font, 16 x 16 dot font, 32 x 32 dot font				
Font	Sizes	Width: 1~8 times expandable / Height: 1/2*3, 1~8 times expandable				
	ch Panel Resolution	16 x 12 keys / screen - 1 or 2 point touch selectable				
Ope	ration Status LED	Green: Normal Operation; Orange: Backlight Burn-out				
JO	Application	2MB FEPROM (Approx. 640 screens at 3.2KB/screen)				
	Data Backup	256KB SRAM — uses a rechargeable lithium battery*4				
Seria (COI	al Interface M1)	Asynchronous Transmission: RS-232C/RS-422 Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, Odd or Even Data Transmission Speed: 2,400bps to 115.2kbps (MPI: 187.5kbps)*5				
(COI	ansion Serial Interface M2)	Asynchronous Transmission: RS-232C Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, Odd or Even Data Transmission Speed: 2,400 bps to 38.4kbps				
Ethe	rnet Interface		IEEE802.3, 10BASE-T			
Tool	Connector Interface	Asynchronous TTL level nonprocedural command I/F  Suring screen file development> Used for transferring data to and from the GP application software and the GP. Used for data transfer with the 2-Port feature. Suring Operation> Used for a variety of devices, including a bar-code reader.				
CF C	Card Interface	1 slot (CompactFlash™)				
Print	ter Interface	Compatible with NEC PC-PR201/PL, EPSON ESC/P24-J84(C), HP Laser Jet PCL 4 command, EPSON PM/Stylus (6-color ink), EPSON Stylus (4-color ink) compatible printers*6				

Model		GP2301-TC41-24V	GP2301-SC41-24V	GP2301-LG41-24V		
	lay Type	TFT Color LCD	STN Color LCD	Monochrome LCD		
Display Colors		256 colors *1	64 colors	Black and White or 8 Levels of Gray		
Back	klight	CCFL User replaceable CCFL (Service life: 50,000 hrs. at 25 °C and 24hr. operation)  User replaceable CCFL (Service life: 50,000 hrs. at 25 °C and 24hr. operation)				
Disp	lay Resolution		320 x 240 pixels			
Effec	ctive Display Area	W115.2r	nm [4.54in.] x H86.4mm	[3.40in.]		
Brigh	htness Control	4 levels of a	adjustment available via t	ouch panel		
	trast Adjustment	_	8 levels of adjustment a	vailable via touch pane		
Lang	guage Fonts	Chinese: (GB2312-8) Japanese: ANK 158, K Korean: (KSC5601-	850) Alphanumeric (includ 0 codes) simplified Chine (anji: 6962 (JIS Standard 1992 codes) Hangul font es) traditional Chinese for	ese fonts s 1 and 2) s		
	8 x 8 dots		40 Char. x 30 rows			
¥	8 x 16 dots	40 Char. x 15 rows				
Text	16 x 16 dots	20 Char. x 15 rows				
	32 x 32 dots	10 Char. x 7 rows				
Cha	racter Sizes*2	8 x 8 dot font, 8 x 16 dot font, 16 x 16 dot font, 32 x 32 dot font				
Font	Sizes	Width: 1~8 times expandable / Height: 1/2*3, 1~8 times expandable				
	ch Panel Resolution	16 x 12 keys / screen - 1 or 2 point touch selectable				
	ration Status LED	Green: Normal Operation; Orange: Backlight Burn-out				
Memory	Application	1MB FEPROM (Approx. 320 screens at 3.2KB/screen)				
Mer	Data Backup	128KB SRAM — uses a rechargeable lithium battery*4				
Seria (COI	al Interface M1)	Asynchronous Transmission: RS-232C/RS-422  Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, Odd or Even  Data Transmission Speed: 2,400bps to 115.2kbps (MPI: 187.5kbps)*5				
Tool Connector Interface		Asynchronous TTL level nonprocedural command I/F  -During screen file development> Used for transferring data to and from the GP application software and the GF Used for data transfer with the 2-Port feature.  -During Operation> Used for a variety of devices, including a bar-code reader.				

Changing the Colors setting to "256 colors" will disable the blinking feature on all screens in your project. If you wish tuse the blinking feature, select '64 colors'.
 The font size varies depending on selected language and enlargement ratio.
 Only available when using "12 2 bye Character' settings via software. (Only Japanese, Chinese, Taiwanese, and Korean characte' 4. A Lithium battery's lifetime is:

 10 years when the battery's ambient temperature is 40°C or less.
 4.1 years when the battery's ambient temperature is 50°C or less.
 1.5 years when the battery's ambient temperature is 50°C or less.

 When used for back up:

 Approximately 60 days, with a fully charged battery.
 Approximately 6 days, with a half-charged battery.

 SISIEMENS SIMATIC S7-20030/400 series (MPI port only). Please contact your Pro-face sales representative for supported models and other details.
 6 Printers with only Windows drivers cannot be used. However, certain types of printers with both Windows and DOS drivers can be used. For details, contact your local GP distributor.

### **GENERAL SPECIFICATIONS**

N	lodel	GP2300-TC41-24 V	GP2300-SC41-24V	GP2300-LG41-24V	GP2301-TC41-24 V	GP2301-SC41-24V	GP2301-LG41-24V			
	Rated Voltage	DC24V								
	Rated Voltage Range	DC19.2V to DC28.8V								
ā	Power Consumption	22W or less								
ectrical	Allowable Voltage Drop	10ms or less								
ŭ	Voltage Endurance	AC1000V 20mA for 1 minute (between charging and FG terminals)								
	Insulation Resistance	$20M\Omega$ or higher at DC500V (between charging and FG terminals)								
	Operating Temperature	0°C to +50°C*1								
	Storage Temperature	-20°C to +60°C								
_	Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature:39°C or less)								
Ħ	Storage Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature:39°C or less)								
nme	Vibration Resistance	IEC61131-2 (JIS B 3502) compliant When vibration is NOT continuous: 10Hz to 57Hz 0.075mm, 57Hz to 150Hz 9.8m/s² When vibration is continuous: 10Hz to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s² X, Y, Z directions for 10 times (80min.)								
nviro	Noise Immunity (via noise simulator)	Noise Voltage: 1000Vp-p Pulse Duration: 1 μs Arise Time: 1ns								
ш	Corrosive Gasses	Free of corrosive gasses								
	Electrostatic Discharge Immunity	6kV (complies with EN 61000-4-2 Level 3)								
	Certifications	EN55011 Class A, EN61000-6-2, UL60950, UL1604								
	Grounding	100Ω or less, or your country's applicable standard*2								
<u>_</u>	Ratings (For front panel of installed unit)			, ,	30)* <sup>3</sup> / NEMA#250 TYPE4 X/12					
킂	Cooling Method			Natural ai	r circulation					
5	Weight				51b) or less					
क्र	External Dimensions	·	·		m[5.43in.] x D60mm[2.36in.]					
	Panel Cutout Dimensions		156+3mm [6.14+8	*in.] x 123.5+3mm [4.86+8*in]	(Panel thickness: 1.6mm[0.06	in.] to 5mm[0.2in.])				

\*1 The LCD displays of GP-2300L, GP-23001. And GP-2301S may occasionally blur when they are used for hours at over 40°C ambient operating temperature. This is a temporary phenomenon.

After the temperature returns to normal, the display will be restored to normal. The GP's operation will not be affected even though the display is blurred.

\*2 Grounding requirements differ from country to country. Be sure to confirm your work environment requirements prior to installation. For more information, please contact your Pro-face distributor.

\*3 The degree of protection provided by these products is equivalent to IP65f, however their performance cannot be guaranteed for every environment. Be sure to confirm your work environment requirements prior to installation.

	PC BBBBBBBBBBBBBBB	l'annan	can be asea.
	GP-V	/iewer GV01-V**	
2 Expa	Bus Conversion Unit Communicat PSM-CONV00 Communicat	* See page 24 for information on connectable interface units. The color of each frame	7 2 4 3 1
3 Pri	nter Interface Printer Cable	Printer	
Ш	PSM-PRCB00		
	cpansion Serial Interface (COM2)	Bar-Code Reader,	
		2-Dimensional-Code Reader	
	Tool Connector (Run time)		
ШПГ		Bar-Code Reader	
шш			5 6
ш	CP	DPO/DPIII C Package	
	Tool Connector GPPF	PRO/PBIII C-Package PRO-CNT01W-P**	1
11111	(Development/Maintenance)	Mitsubishi GPP Software	EXTERNAL
шш	Data Transfer Cable  GPW-CB02	When using	DIMENSIONS
ш	GPW-CB03 (USB Connector)	the Internal 2-Port Feature	Unit: mm [in.]
11111	'	/	155.5[6.12]
			60
GP2300	6 CF Card	CF Court Adouton	[2.36] 8 171 [6.73]
GP2301 Series		ALL/64MB-01 GP077-CFAD10	
Octios	CA3-CFC	ALL/128MB-01 ALL/256MB-01	₹    Û
		ALL/512MB-01	123[4.84]
<b>Serial</b>	Interface (COM1)		
	GP410-IS00-O		
	RS-422 Cable	Host Controller	
	GP230-IS11-O GP230-IS12-O (for Multi-link cable)		
	RS-422 Connector Terminal Adapter	PLC etc.	4-R3 [0.12] or less Panel Cutout
	GP070-CN10-O	nn l	Panel Cutout
2 Port Adapte GP070-MDCB			
GPU/U-MDCB	GP070-MD11	- Company of the Comp	
Mitsubishi GP430-IP10-0	PLC A-Series Program Port I/F Cable	<u> </u>	
	PLC FX-Series Program Port I/F Cable		
GP2000-CBLF GP2000-CBLF			
J. 2000 ODE			

GP2300 Series / GP2301 Series 12 11 GP2300 Series / GP2301 Series

# GP2000H Series



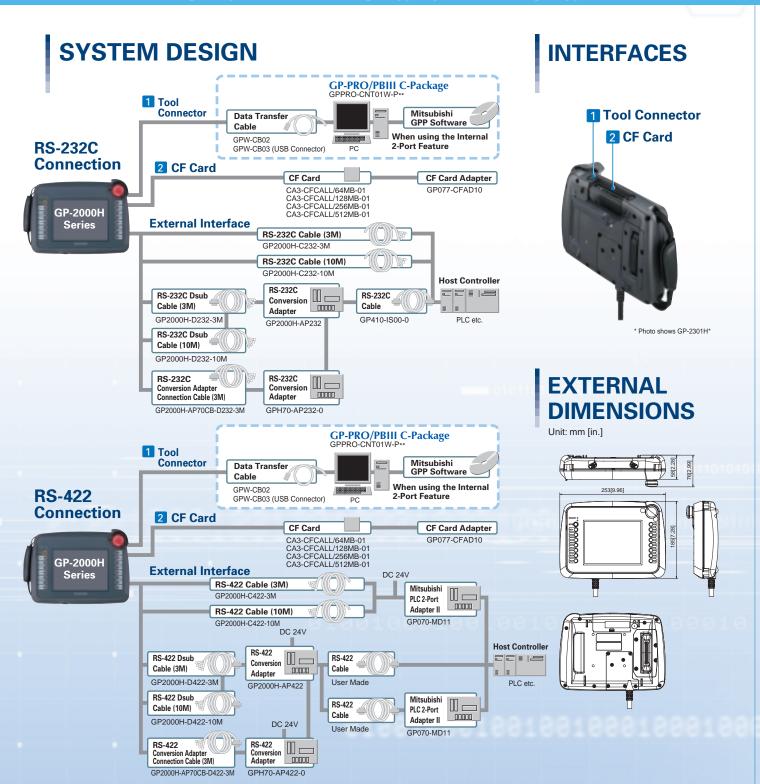




**GP-2401HT** 

**GP-2301HS** 

**GP-2301HL** 



#### **FUNCTIONAL SPECIFICATIONS**

MC		GP2401H-TC41-24V	GP2301H-SC41-24V	GP2301H-LG41-24V			
Disp	lay Type	TFT Color LCD	STN Color LCD	Monochrome LCD			
Disp	lay Colors	256 colors *1	64 colors	Black and White or 8 Levels of Gray			
Back	klight	CCFL (Se	ervice life: 50,000hrs, at 25°C and 24hr. c	operation)			
	lay Resolution	640x 480 pixels		240 pixels			
	ctive Display Area	W132.5mm [5.22in.] x H99.4mm [3.91in.]		] x H86.4mm [3.40in.]			
Brigl	htness Control	4 le	vels of adjustment available via touch pa	anel			
	trast Adjustment		8 levels of adjustment a	available via touch panel.			
Lanç	guage Fonts	ASCII: (Code page 850) Alphanumeric (including European characters) Chinese: (GB2312-80 codes) simplified Chinese fonts Japanese: ANK 158, Kanji: 6962 (JIS Standards 1 and 2) Korean: (KSC5601-1992 codes) Hangul fonts Taiwanese: (Big 5 codes) traditional Chinese fonts					
	8 x 8 dots	80 Char. x 60 rows	40 Char.	. x 30 rows			
¥	8 x 16 dots	80 Char. x 30 rows	40 Char.	. x 15 rows			
Text	16 x 16 dots	40 Char. x 30 rows	20 Char.	Char. x 15 rows			
	32 x 32 dots	20 Char. x 15 rows 10 Char. x 7 rows					
Cha	racter Sizes*2	8 x 8 dot font, 8 x 16 dot font, 16 x 16 dot font, 32 x 32 dot font					
Font	Sizes	Width: 1~8 times expandable / Height: 1/2*3, 1~8 times expandable					
	ch Panel Resolution	32 x 24 keys / screen - 1 or 2 point selectable 16 x 12 keys / screen - 1 or 2 point touch selectable					
	ration Status LED	Green: Normal Operation; Orange: Backlight Burn-out					
Memory	Application	2MB FEPROM (Approx. 640 screens at 3.2KB/screen)	1MB FEPROM (Approx. 320 screens at 3.2KB/screen)				
Me	Data Backup		128KB SRAM – uses a lithiuim battery*4				
Front Panel Membrane Switch	Function Switches	15 (DOUT Output: F1, F2) 11 (DOUT Output: F1, F2)					
P P P	Operation Switches	Function Switch (O.P Key) (DOUT Output)					
D	OUT Output		tor output Rated voltage: DC24V Rated				
0	peration Output	1-point (F1, F2) open collect	tor output Rated voltage: DC24V Rated	current: 300mA/point Max.			
В	uzzer Output	1-point (F1, F2) open collect	tor output Rated voltage: DC24V Rated	current: 300mA/point Max.			
s	mergency witch Output	2 Contacts (NC) Rated Voltage: DC 30V Rated Current: 1A max. (Applicable Load: 1mA DC 5V min.)  Open Collector Output: 1 point Rated Voltage: DC 24V Rated Current: 300mA max.					
rfaces S	-Position Enable witch Output	2 Contacts (NO)*5 Rated Voltage: DC 24V Rated Current: 300mA max. (Applicable Load: 4mA DC 24V min.)					
- 1 -	erial Interface COM1)	Asynchronous Transmission: RS-232C/RS-422 Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, Odd or Even Data Transmission Speed: 2,400bps to 115,2kbps (MPI: 187.5kbps)*6					
žΤ	ool Connector	Asynchronous TTL level nonprocedural	command I/F				
In	nterface	<during development="" file="" screen=""></during>	m the GP application software and the	GP.			
		1 slot (CompactFlash™)					

- \*1 Changing the "Colors" setting to "256 color" will disable the blinking feature on all screens in your project. If you wish to use the blinking feature, select
- "64 colors".

  \*2 The font size varies depending on selected language
- and enlargement ratio.

  3 Only available when using \*1/2 2 Byte Character" settings via software. (Only Japanese, Chinese, Taiwanese, and Korean characters)
- "4 A Lithium battery's lifetime is :

   10 years when the battery's ambient temperature is 40°C
- or less.
   4.1 years when the battery's ambient temperature is 50°C
- 1.5 years when the battery's ambient temperature is 60°C

- or less.
  When used for backup:

   Approximately 60 days, with a fully charged battery.

   Approximately 6 days, with a half-charged battery.

   When GP-H70 Compatibility mode is selected, 1 Contact (NO).

  •6 SIEMENS SIMATIC 57-200/300/400 series (MPI port SIEMENS SIEMENS SIMATIC 57-200/300/400 series (MPI port SIEMENS SIEMENS SIMATIC 57-200/300/400 series (MPI port SIEMENS SIEMEN
- only). Please contact your Pro-face sales representative for supported models and other details

#### **GENERAL SPECIFICATIONS**

N	lodel .	GP2401H-TC41-24V	GP2301H-SC41-24V	GP2301H-LG41-24V				
	Rated Voltage	DC24V						
_	Rated Voltage Range	DC19.2V to DC28.8V						
rica	Power Consumption	15W max.						
Elect	Allowable Voltage Drop	10ms max.						
ш	Voltage Endurance	AC 500V 20mA for 1 minute (between charging and FG terminals)						
	Insulation Resistance	$20M\Omega$ or more at DC500V (between charging and FG terminals)						
	Operating Temperature	0°C to +40°C						
	Storage Temperature	-20°C to +60°C						
	Humidity	10%RH to 90%RH (non-condensing.wet bulb temperature:39°C or less)						
	Storage Humidity	10%RH to 90%RH (non-condensing.wet bulb temperature:39°C or less)						
nental		IECG1131-2 (JIS B 3502) compliant When vibration is NOT continuous: 10Hz to 57Hz 0.075mm, 57Hz to 150Hz 9.8m/s² When vibration is continuous: 10Hz to 57Hz 0.035mm, 57Hz to 150Hz 4.9m/s², 10 times (80min.) for each (X, Y, Z) direction						
Ē	Shock Resistance	IEC61131-2 (JIS B 3502) compliant, 147m/s <sup>2</sup> Release time: 11ms, Twice for each (X, Y, Z) direction						
ij	Drop Resistance	IEC6113	1-2 (JIS B 3502) compliant (1.0-meter dro	p, twice)				
ED	Noise Immunity (via noise simulator)	Noise Volta	ge: 1000Vp-p Pulse Duration: 1 μs Arise	Time: 1ns				
	Corrosive Gasses		Free of corrosive gasses					
	Electrostatic Discharge Immunity		6kV (EN61000-4-2 Level 3)					
	Certifications		N55011 Class A, EN61000-6-2, UL60950					
	Grounding	100Ω	Max., or your country's applicable standa	rd*1				
ıral	Rating (For front face of installed unit)	Equivaler	nt to IP65f (JEM1030) / NEMA #250 TYPE	4X/12* <sup>2</sup>				
ctr	Cooling Method		Natural air circulation					
딅	Weight		1.2kg (2.65lb)					
S	External Dimensions	W253mm[9.96in.] x	H185mm[7.28in.] x D58mm[2.28in.] (exc	uding projections)				

- \*1 Grounding requirements differ from country to country Be sure to confirm your work environment requirements prior to installation.

  For more information, please contact your Pro-face
- For more information, please contact your Pro-tace distributor.

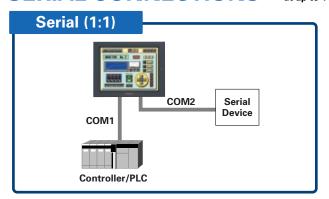
  \*2 The degree of protection provided by these products is equivalent to IP65f, however their performance cannot be guaranteed for every environment. Be sure to confirm your work environment requirements prior to

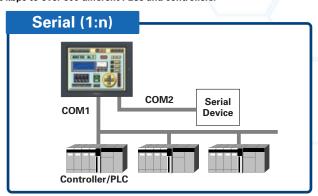
GP2000H Series 14 13 GP2000H Series

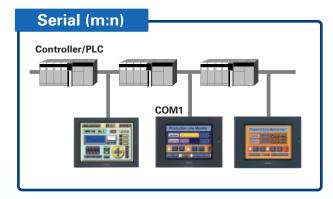
# **Communication Connectivity**

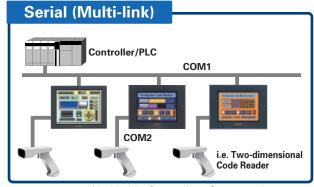
# **SERIAL CONNECTIONS**

Use the RS-232C/RS-422 communication port to connect at up to 115.2 kbps to over 600 different PLCs and controllers.





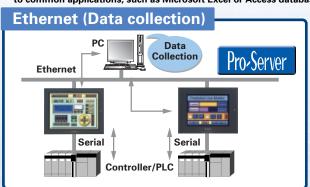


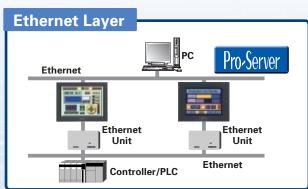


Worldwide Controllers Supported Page ▶18
Supported connection methods depends on a used controller and driver.

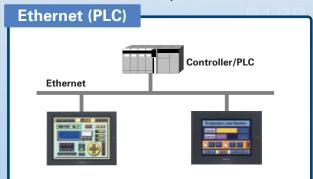
### **ETHERNET NETWORK**

The Pro-Server with Pro-Studio software allows the host PC to collect PLC data via GP to common applications, such as Microsoft Excel or Access database.



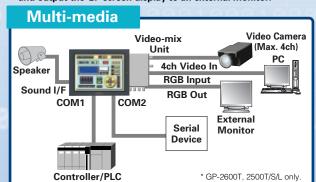


#### Connect to the world's most widely used network.

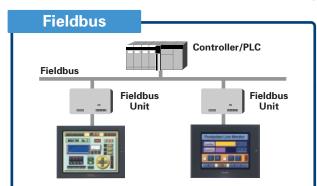


# **VIDEO-MIX CONNECTION**

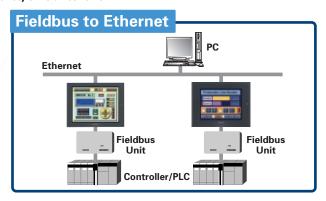
Display images from external video cameras and PCs on a single unit, and output the GP screen display to an external monitor.



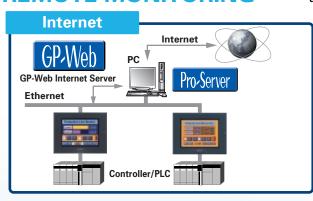
# **FIELDBUS CONNECTIONS**



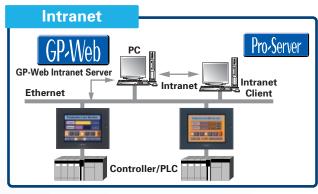
Attach an optional network unit and connect your GP to a variety of field networks.



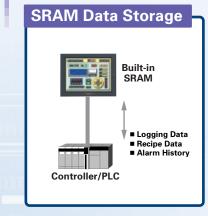
# **REMOTE MONITORING**

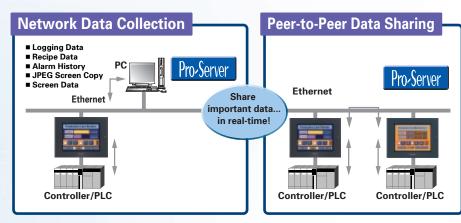


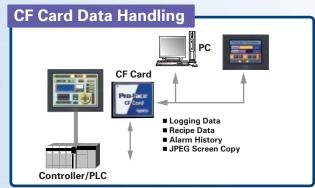
GP-Web enables remote monitoring of factory floor data anytime and anywhere without special programming.

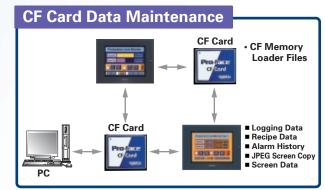


## **DATA HANDLING**









Communication Connectivity 16

# GP 2000 Advanced Technology

# **DISPLAY & OPERATION**

- Touch Panel Operation
- On-line Multi-language Selection
- Windows Font Image Import
- 256-Color Display\*1
- Video-mix Display of Up to 4 Video Windows, with 1 RGB-In and 1 RGB-Out\*2
- Bar, Meter, Pie and Trend Graphs
- Active Window
- European and Asian Font Support
- Backlight Burn-out Detection Function
- 100MHz RISC CPU Performance
- \*1 GP-2600T, 2500T, 2400T, 2300T, 2601T, 2501T, 2401T, 2301T, 2401HT only.
- \*2 VM Unit is required. GP-2600T, 2500T only

# DATA HANDLING

- JPEG Screen Capturing\*1
- JPEG File Transfer via Network\*1
- Data Backup SRAM
- Production Data Exchange via CF Card
- Real-time Data Collection via ADO/DDE/DLL/ OPC/SQL with "Pro-Server with Pro-Studio"
- Remote Monitoring via Internet/Intranet with "GP-Web"
- Screen Data Maintenance via CF Card
- Screen Data Maintenance via Ethernet
- Data Logging
- **■** Recipe Handling
- Alarm History
  - \*1 VM Unit is required. GP-2600T, 2500T only.

# **CONNECTIVITY**

- Worldwide Protocols **Supported**
- **■** Fieldbus Connection
- Ethernet Connection\*1
- External Speaker for Audio Messages\*2
- 2-D Code/Bar-Code Reader Connectivity via COM2\*1
- Multi-link Serial Connection
- Memory-link Connection
- \*1 GP-2600T, 2500T/S/L, 2400T, 2300T/S/L only \*2 GP-2600T, 2500T/S/L, 2400T only.

# SCREEN DEVELOPMENT

- JPEG & BMP Compatibility
- **256-color Parts Library**
- Easy-to-Create Development Log
- Simulation Function
- D-Script Programming Tool
- TXT, RTF, CSV, DXF, WAV Format Compatibility
- ISO7000 Symbol Library
- Alarm Message Import/Export
- Sound Message Library
- Fully Scalable Objects
- Functional and Animation Tags
- **■** Internet Browser-like Easy File Management
- I/O Addressing Cross Reference
- Screen-nesting Chart

# **Connectable Controllers**

All equipment in these lists has been tested with the GP-PRO/PBIII C-Package03 software (as of February 2004)

PF3S-CP13 MICRO<sup>3</sup> FC4A-C10R2E

> FC4A-D20K3 FC4A-D20S3

FC4A-D20RS1

FC4A-D40S3

KZ-300

KV-16A□,KV-16D[

KV-40A , KV-40D

KV-10RW,KV-10T2W KV-16RW,KV-16T2W KV-24RW,KV-24T2W

KV-40RW.KV-40T2W

(All-in-One Type) FC4A-C24R2B

OpenNet FC3A-CP2K Controller FC3 FC3A-CP2S

KZ-A500 KZ-A500

KEYENCE

KZ-300

Idec Izumi

#### PLCs

FAINUC			
Series Name	CPU	Direct	JPCN-1
EANUIO O :	16-MODEL C	•	•
FANUC Series	18-MODEL C	•	
	16i-MODEL A	•	
	16i-MODEL B	•	
	18i-MODEL A	•	
	18i-MODEL B	•	
	21i-MODEL A	•	
	21i-MODEL B	•	
FANUC Power Mate (Motion Controller)	Power Mate	•	

F.	Α.	Т	Е	K	

Facon FB	FBE-28MC	•	•	•	•
	FBE-40MC	•		•	•
uji Electric					
Series Name	CPU	Link	Direct	T-Link	JPCN-1
	F30	•		•	
MICREX-F	F50	•		•	
	F60	•		•	
	F70S	•		•	
	F80	•		•	
	F80H	•	•	•	
	F81	•		•	
	F120	•		•	
	F120H	•		•	
	F120S	•		•	
	F200	•		•	
	F250	•	•	•	
	NB1	•	•		
FLEX-PC	NB2	•	•		
	NB3	•	•		
					_

GE	FANUC	Automatic

GE FANUC Automation							
Series Name	CPU	Link	Direct				
	CPU311	•	•				
Series90-30	CPU331	•	•				
	CPU360/363/364		•				
	CPU313/323		•				
	CPU340/341		•				
	CPU350/351/352		•				
	CSE311/313		•				
	CSE323/331/340		•				
	CPU731/732	•	•				
Series90-70	CPU771/772	•	•				
	CPU780/781/782	•	•				
	CPU788/789		•				
	CPM915/925		•				
	CPX935		•				
	CGR935		•				
	CPM790		•				
	CSE784		•				
	CSE924/925		•				
	CPX772/782		•				
	CPX928		•				
	CGR772		•				

Series Name	CPU	Link	Direct	Multi-Link	DeviceNet	Ethernet	JPCI
	2α(LWP000)	•					•
HIDIC-S10α	2αE(LWP040)	•					•
	2αH(LWP070)	•					•
	4α	•					
	4αF	•					
	2αHf(LWP075)						•
HIZAC EC	EC-40HR		•				
	LQP000	•			•		
S10mini	LQP010	•			•		
	LQP011	•			•		
	LQP120	•					
	LQP800	•					
S10V	LQP510	•			•		

#### Hitachi Industrial Equipment Systems

HIDIC-H	H20		•			Г
ныс-н	H28		•			Г
	H40		•			Г
	H64		•			Г
	H-200		•			Г
	H-252C		•			Г
	H-300	•	•			Г
	H-302	•	•	•	•	
	H-700	•	•			Г
	H-702	•	•	•	•	Г
	H-1002				•	
	H-2000	•	•	•		
	H-2002	•	•	•	•	
	H4010	•	•	•	•	
	EH-150	•	•	(EH-CPU448)		
	MICRO-EH		•	•		
Idec Izumi						

	Series Mairie	CFO	LIIIK	Direct
	FA-2	PF2-CPU1		•
	1 A-2	PF2-CPU5M		•
	FA-2J	PF2J-CPU1		•
	FA-3S	PF3S-CP11		•
		PF3S-CP12	•	•

# me CPU Link Direct 1:n Multi MELSEC-

		Mitsubisl
	Direct	Series Na
	•	
	•	MELSEC
ct	Multi-Link	
	•	1451.050
	•	MELSEC-
		MELSEC-

KV-80RW,KV-80TW The KV-700 uses the KZ-300 and KZ-A500 protocol.
The multilink configuration uses KZ-200 protocol.

#### Koyo Electronics Industries

KV-700 KV-700

	Series Name	CPU	Link
	KOSTAC SG	SG-8	•
1		SU-5	•
	KOSTAC SU	SU-6	•
+		SU-6B	•
+	KOSTAC SZ	SZ-4	•
1	KOSTAC SR	SR-21	•
1	KOSTAC SK	SR-22	•
1	DL-205	D2-240	•
1	DL-305	D3-330	•
1	DL-405	D4-430	•
1	DL-405	D4-440	•
	DL05	D0-05AA	•
	DLU5	D0-05AD	•
4		D0-05AR	•
4		D0-05DA	•
4		D0-05DD	•
4		D0-05DD-D	•
+		D0-05DR	•
+		D0-05DR-D	•
-			

#### Matsushita Electric

Series Name	CPU		LINK	
Panadac 7000	P7000-PLC-001		•	
Panadac 7000	P7000-PLC-031H		•	
	P7000-PLC-031S		•	
	P7000-PLC-A01		•	
Matsushita	Electric Work	s/NAiS		
Series Name	CPU	Link	Direct	
	FP2	•		
MEWNET	FP3	•		

MEWNET	FP3	•		
	FP5	•		
	FP10(S)	•		•
	FP1	•	•	
	FP-M	•	•	
	FP10SH	•		•
	FP0	•	•	
	FP2-C2	•	•	
	FP2-C2P	•	•	
	FP2-C3P	•	•	
	FPG-C32T	•	•	
FPΣ Control Unit	FPG-C32T2	•	•	
	FPG-C24R2	•	•	

Series Name	CPU	Ethernet
UNISEQUE	RC100	•
UNISEQUE	ADC4000	•
	ADC7000	•

### Mitsubishi Electric

				LIIIK	INCHIO		-LIIIK	
	AOJ2	•		•				
MELSEC-A	AOJ2H	•	•	•			•	
	A1N	•	•	•	•		•	
	A1S	•	•	•	•		•	
	A1SH	•	•	•	•		•	
	A1SJ	•	•	•	•		•	
	A1SJH				•		•	
	A1SCPUC24-R2				•		•	
	A2A	•	•	•	•	•	•	•
	A2A-S1				•		•	

					-LINK	INCUIO		-LINK	
MELSEC A	A2CCPUC24	•	•		•				
IVILLOLO-A	A2CJ-S3		•						
	A2N	•	•		•	•	•	•	•
	A2N-S1					•		•	
	A2S					•		•	
	A2SH	•	•		•	•		•	
	A2U	•			•	•		•	
	A2U-S1		•			•	•	•	•
	A2US	•	•		•	•	•	•	
	A2US-S1		•			•		•	
	A2USH-S1	•	•		•	•		•	
	A3A	•	•		•	•	•	•	•
	A3H		•			•		•	i
	A3N	•	•		•	•		•	
	A3U	•	•			•		•	
	A4U	•	•		•	•		•	
	F <sub>2</sub> -20M	•							
MELSEC-F2	F <sub>2</sub> -40M	•							
MELSEC-FX MELSEC-GNA MELSEC-QNA	F <sub>2</sub> -60M	•							
	A1FX		•						
MELSEC-FX	FX <sub>0</sub>		•						
	FXos		•						
	FXon		•						
	FX <sub>1</sub>		•						
	FX1s		•						
	FX <sub>1N</sub>	•	•						
	FX1NC	•	•	•					
			•	•					
	FX2C		•						
	FX2N	•	•		•				
		•	•	•					
		•	•	•	•	•	•	•	_
MELSEC-QnA		•			•	•	•	•	
	Q2AS	•	•		•	•	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•	
		•				•	•	•	
	A2SH								
		•							
MELSEC-QnA		•	•		•	•	•	•	
			_		_	Ť	_	•	_
						•	_	•	
MELSEC-Q		_			_	<u> </u>	_	•	
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				-	_	-	_	•	
* MEI SECNET				tha DC	_	_	_	_	
	r ro is supported o	my bet	ween	iie PC	,.				
Modicon									

Series Name	CPU	Direct	Modbus (n:m)
Modbus Master*1	_	<b>●</b> *2	
884/984	884	•	•
004/304	0044/004B		

### 984A/984B 1 The GP becomes a slave. \*2 The connection port varies depending on the mode

#### OMRON

Series Name	CPU	Link	Direct	1:n	Multi -Link	Device -Net	Ethernet
	C20H	•					
SYSMAC C	C28H	•					
	C40H	•					
	C120	•			•		
	C120F	•			•		
	C200H	•			•		
	C200HS	•	•		•		
	C500	•			•		
	C500F	•			•		
	C1000H	•			•		
	C1000HF	•			•		
	C2000	•			•		
	C2000H	•			•		
	CQM1-CPU11		•				
	CQM1-CPU42	•	•				
	CQM1H-CPU21		•				
	CQM1H-CPU51	•	•	•			
	CQM1H-CPU61	•	•	•			
	CPM1-20CDR-A	•	•		•		
	CPM2A	•	•		•		
	CPM2C	•	•				
	SRM1-C02	•	•		•		
	C200HE-CPU42	•			•		
SYSMAC $\alpha$	C200HE-CPU42-Z	•					
	C200HG-CPU43	•			•		
	C200HG-CPU63	•					
	C200HX-CPU44	•					
	C200HX-CPU64	•			•		
	C200HX-CPU64-Z	•			•		
	C200HX-CPU85-Z	•					
	CV500	•			•		
SYSMAC CV	CV1000	•			•		
	CVM1	•			•		
	CS1G-CPU42	•	•		•	•	•
SYSMAC CS1	CS1G-CPU43	•	•		•	•	•
	CS1G-CPLIAA						•

Connectable Controllers 18 17 GP2000 Advanced Technology

Series Name	CPU	Link	Direct	1:n	Multi -Link	Device -Net	Ethernet
	CS1H-CPU64	•	•		•	•	•
SYSMAC CS1	CS1H-CPU65	•	•		•	•	•
	CS1H-CPU66	•	•		•	•	•
	CS1H-CPU67	•	•		•	•	•
	CS1G-CPU42H	•	•		•	•	•
	CS1G-CPU43H	•	•		•	•	•
	CS1G-CPU44H	•	•		•	•	•
	CS1G-CPU45H	•	•		•	•	•
	CS1H-CPU63H	•	•		•	•	•
	CS1H-CPU64H	•	•		•	•	•
	CS1H-CPU65H	•	•		•	•	•
	CS1H-CPU66H	•	•		•	•	•
	CS1H-CPU67H	•	•		•	•	•
	CJ1G-CPU44	•	•		•	•	•
SYSMAC CJ	CJ1G-CPU45	•	•		•	•	•
	CJ1G-CPU42H	•	•		•	•	•
	CJ1G-CPU43H	•	•		•	•	•
	CJ1G-CPU44H	•	•		•	•	•
	CJ1G-CPU45H	•	•		•	•	•
	CJ1M-CPU12	•	•		•	•	•
SYSMAC CJ1M	CJ1M-CPU13	•	•		•	•	•
	CJ1M-CPU22	•	•		•	•	•
	CJ1M-CPU23	•	•		•	•	•

OKIIVIVEXT									
Series Name	CPU				Li	nk			
E1	CPU11				•				
Rockwell (A	llen-Bradley)								
Series Name	СРИ	Link	Direct	Multi -Link	Device -Net	DH+	DH 485	Remote I/O	Etherne
	SLC-5/01						•		
SLC500	SLC-5/02						•		
	SLC-5/03	•		•			•		
	SLC-5/04	•		•	•	•	•		
	SLC-5/05								•
	PLC-5 Series	•						•	
PLC-5	PLC-5/11	•	•						
	PLC-5/20	•	•		•	•			
	PLC-5/30	•	•						
	PLC-5/40	•	•						
	PLC-5/40L	•	•						
	PLC-5/60	•	•						
	PLC-5/60L	•	•						
	1756-L1		•		•				•
Control Logix	1756-L1M1		•		•				•
5000	1756-L1M2		•		•				•
	1756-L1M3		•		•				•
	1756-L55M13		•		•				•
	1756-L55M14		•		•				•
	1756-L55M16		•		•				•
	1761-L16AWA	•	•	•			•		
MicroLogix1000	1761-L32AWA	•	•	•			•		
	1761-L20AWA-5A	•	•	•			•		
	1761-L10BWA	•	•	•			•		
	1761-L16BWA	•	•	•			•		
	1761-L20BWA-5A	•	•	•			•		
	1761-L32BWA	•	•	•			•		
	1761-L10BWB	•	•	•			•		
	1761-L16BWB	•	•	•			•		
	1761-L20BWB-5A	•	•	•			•		
	1761-L32BWB	•	•	•			•		
	1761-L16BBB	•	•	•			•		
	1761-L32BBB	•	•	•			•		
	1761-L32AAA	•	•	•			•		
	1762-L24AWA	•	•	•			•		
MicroLogix1200	1762-L24BWA	•	•	•			•		
	1762-L24BXB	•	•	•			•		
	1762-L40AWA	•	•	•			•		
	1762-L40BWA	•	•	•			•		
	1762-L40BXB	•	•	•			•		
Missel saiut500	1764-LSP	•	•	•	•		•		
MicroLogix1500	1764-LRP	•	•	•	•				
O	4700 1 055								_

Series Name	CPU	Modb	us R	TU	Modbu	is TCP	Uni-	Telv	vay
	TSX 07 30 10		•					•	
Nano	TSX 07 31 16□□		•					•	
	TSX 07 31 24		•					•	
	TSX 07 32 □□28							•	
	TSX 07 33 □□28							•	
	TSX 07 3L □□28							•	
Micro	TSX 37 05 028DR1		•					•	
	TSX 37 08 056DR1		•					•	
	TSX 37 10 128DT1		•					•	
	TSX 37 10 128DR1		•					•	
	TSX 37 10 128DTK1		•	_				•	
	TSX 37 10 164DTK1		•					•	
	TSX 37 10 028AR1		•					•	
	TSX 37 10 028DR1		•					•	
	TSX 37 21 101		•					•	
	TSX 37 22 101		•					•	
	TSX 37 21 001		•					•	
	TSX 37 22 001		•					•	

TCP Uni-Telway
•
•
•
•
•
•
•

Series Name	CPU		LINK		IV.	/luiti-Lir	1K
Naw Catallita III	JW20		•				
New Satellite JW	JW-32CUH		•				
	JW-32CUH1		•				
	JW-33CUH3		•			•	
	JW50		•				
	JW70		•				
	JW100		•				
Shinko Elec	tric						
Series Name	CPU			Lii	nk		
SELMART	SELMART			_			
SIEMENS							
Series Name	CPU	Link	Direct	Profibus	MPI	INTERBUS	Etherne
	S5 90U	•	•				-
SIMATIC-S5	S5 95U	•	•				
	S5 100U	•	•				
	S5 115U	•	•				
	S5 135U	•	•				
	S5 155U	•	•				
	CPU212		•				
SIMATIC S7-200	CPU214		•		•		
	CPU215		•		•		
	CPU216		•		•		
	CPU221		•		•		
	CPU222		•		•		
	CPU224		•		•		
	CPU226		•		•		
	CPU312IFM		•		•		•
SIMATIC S7-300	CPU313	•	•		•		•
	CPU314	•	•		•		•
	CPU314IFM				•		•
	CPU315	•	•		•		•
	CPU315-2DP	•	•	•	•		•
	CPU316				•		•
	CPU316-2DP				•		•
	CPU318-2				•		•
	CPU412-1				•		•
SIMATIC S7-400	CPU412-2DP				•		•
	CPU413-1				•		•
	CPU413-2DP	•	•	•	•	•	•
	CPU414-1				•		•
	CPU414-2DP				•		•
	CPU414-3DP				•		•
	CPU416-1				•		•
	CPU416-2DP				•		•
	CPU416-3DP				•		•
	CPU417-4				•		•
SIMATIC 505	SIMATIC545-1101	•					
OINIA HO JUJ	SIMATIC545-1102	•					
	SIMATIC545-1103	•					
	CIMATICE AE 4404	_	_				

SIMATIC545-1104 SIMATIC555-1101 SIMATIC555-1104 • SIMATIC555-1105 •

 PROSEC EX
 EX2000

 PROSEC T
 T3

 T3H
 ●

CPU Link Multi-Link Ether

Toshiba

Toshiba								
Series Name	CPU	L	_ink	N	∕lulti-Li	nk	1	:n
PROSEC T	T2N		•			_	•	
	T2E B200CH		•			+		
PROVISOR B	B200CUF		•					
	B200CURM		•	_		_		
	B200CUFRM S2PU22A		•		•	+		
V Series	S2PU32A		•		•			
	S2PU72A		•	+	•	+		
	S2PU72D S3PU45A		•		•	-		
	S3PU55A		•		•		(	•
Taabiba Ma	S3PU65A		•		•		- (	
Toshiba Ma Series Name	CPU				Link			
	TCCUH				•			
PROVISOR TC200	TCCUHS				•			
Fovoda Mai	TCCUSS chine Works				•			
Series Name	CPU		Linl	k			1:n	
	PC2		•					
TOYOPUC-PC2	L2		•		$\perp$		•	
TOYOPUC-PC3	PC2J PC3J		•		+		•	
Yaskawa El								
Series Name	CPU	Lin	_	Direc	ct M	ulti-Lin	k Etl	hernet
Memocon-SC	U84 U84J	•	_		+		+	
	U84S	•			$\pm$		$\pm$	
	GL40S	•	-		1		$\perp$	
	GL60S GL60H	•	_		+		+	
	GL70H	•	_		_		$\pm$	
	GL120	•	_	•	$\perp$	•	T	
	GL130 CP-9200	•	•	•	+	•		
Control Pack			$\neg$	•	$\top$			
	CP-9200SH	•	)	_			$\perp$	
Memocon Micro PROGIC-8	Micro PROGIC-8	•		•	_		+	
MP900	MP920	•	_	•			$\top$	•
	MP930	•	_	•				_
MP2000 Yokogawa	MP2300	•	,					•
Series Name	CPU	Link	Direct	1:n	Multi-	n:m	Etherne	Device
Jeries Ivaille	FA500	LIIK	Direct	•	Link	11.111	Luicine	-Net
FACTORY ACE	FA-M3	•	•	•	•	•	•	•
STARDOM	FCN		•					-
Jbon	FCJ		•					
Series Name	CPU				Link			
UPZ	UPZ3-16ND1-16TD1				•			
0. 2	UPZ3-M				•			
	I IJP73-T							
Inv	UPZ3-T	<b>B</b>						
	erter	S						
	erter	verte					1:n	
uji Electric Series Name	erter:	verte	11S-2				•	
FRENICS5000G11S	erter:	verte	11S-2 11S-4					
FRENICS5000G11S	rerter:	werte	11S-2 11S-4 11S-2 11S-4				•	
FRENICS5000P11S	rerters  FRN[ FRN[ FRN[ FRN[ FRN[ FVR[	G G G G G G G G G G G G G G G G G G G	11S-2 11S-4 11S-2 11S-4	2			•	
FUNITE ELECTRIC Series Name FRENICS5000G11S FRENICS5000P11S FVR-E11S	Perters  FRNI FRNI FRNI FRNI FVNI FVRI FVRI FVRI	werte	11S-2 11S-4 11S-2 11S-4 =11S-2 =11S-2	2 7 2			•	
FUNITE ELECTRIC Series Name FRENICS5000G11S FRENICS5000P11S FVR-E11S	FUNCTON FOR THE PERSON FOR THE PERSO	verte  G G G G G G G G G G G G G G G G G G	11S-2 11S-4 11S-2 11S-4 =11S-: =11S-: C11S-:	2 7 2 6			• • • • • • • • • • • • • • • • • • •	
FRENICS5000F11S FVR-E11S FVR-C11S	FRNL FRNL FRNL FRNL FVRL FVRL FVRL FVRL FVRL		11S-2 11S-4 11S-2 11S-4 E11S-2 E11S-2 C11S-2 C11S-2	2 7 2 6			• • • •	
FRENICS5000G11S FRENICS5000G11S FRENICS5000P11S FVR-E11S FVR-C11S Hitachi Indu	FRNI FRNI FRNI FRNI FRNI FVRI FVRI FVRI FVRI FVRI FVRI	werte	11S-2 11S-4 11S-2 11S-4 E11S-3 E11S-3 C11S-3 C11S-3 C11S-4	2 7 2 6			• • • • • • • • • • • • • • • • • • •	
FUR-C11S FVR-C11S FVR-C11S FVR-C11S FVR-C13S FVR-C13S FVR-C13S FVR-C13S FVR-C13S	FRNI FRNI FRNI FRNI FVRI FVRI FVRI FVRI SUBJECT	verte	11S-2 11S-4 11S-2 11S-4 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 7 2 6 7 ns			•	
FUIL Electric Series Name FRENCSS0009118 FVR-E11S FVR-C11S FIVR-C11S Series Name SJ3000 L300P	FRNI FRNI FRNI FRNI FVRI FVRI FVRI FVRI Strial Equipm	verte	11S-2 11S-4 11S-2 11S-4 11S-5 11S-2 11S-2 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 7 2 6 7 ns	liester		• • • • • • • • • • • • • • • • • • •	omite
FURL Electric Series Name FRENCS50006118 FRENCS50006118 FVR-E11S FVR-C11S Hitachi Indu Series Name SJ300 L300P 1 Depending of	In FRNI FRNI FRNI FVRI FVRI FVRI FVRI Strial Equipm  SJ3009-In the product spe	verte	11S-2 11S-4 11S-2 11S-4 11S-5 11S-2 11S-2 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 11S-3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 7 2 6 7 ns	lication	is som	• • • • • • • • • • • • • • • • • • •	omitte
FULL ELECTRIC Series Name FRENCSS000G11S FRENCSS000P11S FVR-E11S FVR-C11S Hitachi Indu Series Name SJ300 L300P L300P Mitsubishi E	In FRNI FRNI FRNI FRNI FVRI FVRI FVRI FVRI FVRI FVRI FVRI FVR	verte	11S-2 11S-4 11S-2 11S-4 11S-5 11S-0 11S-0 11S-1 011S-1 01S-1 01S-1 01S-1 01S-1 01S-1 01S-1 01S-1	2 7 2 6 7 ns	lication	is som	• • • • • • • • • • • • • • • • • • •	omitte
FULL ELECTRIC SERIES NAME FRENCSS000G11S FRENCSS000P11S FVR-E11S FVR-C11S	FRNI FRNI FRNI FRNI FRNI FVRI FVRI FVRI FVRI FVRI L3000- In the product specification FRRI FRRI FVRI FVRI FVRI FVRI FVRI FVRI	verte  GGPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	118-2 1118-4 1118-4 1118-4 1118-4 1118-4 1118-4 1118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1 118-1	2 7 2 6 7 ns	dication	is som	1:n  1:n	omitte
FULL ELECTRIC SOURCE SO	In FRNI FRNI FRNI FVRL FVRL FVRL Strial Equipm In SJ300-L L300-L L300-L FRRNI	vertee  GG GP PP PP GE	118-2 1118-4 118-2 118-4 118-2 118-4 118-2 118-4 118-7 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9	2 7 2 6 7 ns	lication	is som	1:n  1:n	omitte
FULL ELECTRIC SOURCE SO	In FRNI FRNI FRNI FRNI FVRI FVRI FVRI FVRI Equipm SJ300-[ L300P-[ on the product specification FRRI FRRI FRRI FRRI FRRI FRRI FVRI FVRI	verte  GGPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	118-2 1118-4 118-2 1118-4 118-2 118-4 118-2 118-4 118-7 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-9 118-	2 7 2 6 7 ns	dication	is som	1:n  1:n	omitte
FRENCSSOUGHS FRENCSSOUGHS FRENCSSOUGHS FRENCSSOUGHS FVR-E11S FVR-C11S	FRNI FRNI FRNI FRNI FRNI FVRI FVRI FVRI STRIAL Equipm In SJ300-1 In the product spe Electric In FR- FR- FR- FR- FR- FR- FR-		11S-211S-4 11S-4 11S-2 11S-4 11S-2 11S-4 11S-2 11S-1 1	2 7 2 6 7 ns	lication	is som	1:n	omitte
FRENCSSOUGHS FRENCSSOUGHS FRENCSSOUGHS FRENCSSOUGHS FVR-E11S FVR-C11S	In FRNI FYNI FYNI FYNI FYNI FYNI FYNI FYNI FY	Section   Sect	11S-2 11S-4 11S-2 11S-4 11S-2 11S-4 11S-2 11S-1	2 7 2 6 7 ns	lication	is som	1:n  1:n	omitte
FRENCSSOUGHS FRENCSSOUGHS FRENCSSOUGHS FRENCSSOUGHS FVR-E11S FVR-C11S	In FRNI FANI FANI FANI FANI FANI FANI FANI FA	Section   Sect	11S-2 11S-4 11S-4 11S-2 11S-4 11S-2 11S-4 11S-2 11S-2 11S-3	2 7 2 6 7 ns	dication	is som	1:n	omitte
FRENCSSOUGHS FRENCSSOUGHS FRENCSSOUGHS FRENCSSOUGHS FVR-E11S FVR-C11S Hitachi Indu Series Name SJ300 L300P 1 Depending q Mitsubishi E Series Name FREQROL-A500 FREQROL-A500 FREQROL-E500	In FRNI FYRL FYRL STRIAL Equipm  SJ300-L SJ00P-L SJ00P-C FR-FR-FR-FR-FR-FR-FR-FR-FR-FR-FR-FR-FR-F	Section   Sect	11S-2 11S-4 11S-2 11S-4 11S-2 11S-4 11S-2 11S-2 11S-3 11S-1 11S-3 11S-1	2 7 2 6 7 ns	dication	is som	1:n  1:n  1:n  1:n  1:n  1:n  1:n  1:n	omittee
FRENCISSOUPHS FVR-E11S FVR-C11S FILE FUR-C11S FU	In FRNI FRNI FRNI FVRI FVRI FVRI FVRI Strial Equipm SJ300-[ L300P-[ on the product specification FR-FR-FR-FR-FR-FR-FR-FR-FR-FR-FR-FR-FR-F	G   G   G   G   G   G   G   G   G   G	11S-2 11S-4 11S-2 11S-4 11S-2 11S-4 11S-2 11S-1 11S-2 11S-1 11S-2 11S-1	2 7 2 6 7 ns	lication	is som	1:n  1:n  1:n  1:n  1:n  1:n  1:n  1:n	omitte
FRENCISSOUPHS FVR-E11S FVR-C11S FILE FUR-C11S FU	FRNC	verte   G   G   G   G   G   G   G   G   G	11S-2 11IS-4 11IS-2 11IS-4 11IS-2 11IS-4 11IS-2 11IS-1 11IS-4 11IS-1 11IS-4 11IS-1 1IS-1 1	22 77 22 66 77 ns **1 **1 **1 **1 **1 **1 **1 **1 **1 **	lication	is som	1:n	omitte
FUJI Electric Series Name FRENCSS000G11S FRENCSS000P11S FVR-E11S FVR-C11S	In FRNI STATE OF THE PROPERTY	verte	11S-2 11IS-4 11IS-2 11IS-4 11IS-2 11IS-1 11IS-4 11IS-2 11IS-1 1IS-1 1	22 77 22 66 77 ns **1 **1 **1 **1 **1 **1 **1 **1 **1 **	lication	is som	1:n	omitte
FULL ELECTRIC Series Name FRENCSS000G11S FRENCSS000G11S FVR-E11S FVR-C11S	In FRNI STATE OF THE PROPERTY	werte   G   G   G   G   G   G   G   G   G	11S-2 11IS-4 11IS-2 11IS-4 11IS-2 11IS-4 11IS-2 11IS-1 11IS-4 11IS-2 11IS-1 1IS-1 1IS	22 77 22 66 77 ns	lication	is som	1:n	omitte

T I. 'I O. I		
Series Name	nneider Inverter Inverters	1:n
VF-S9	VFS9A	•
VF-nC1 VF-S11	VFNC1	•
VF-A7	VFA7-00000-A00	•
Yaskawa El		
Series Name Varispeed G7	Inverters CIMR-G7A	1:n
Varispeed F7	CIMR-F7A	•
VS mini V7 VS mini J7	CIMR-V7□A□□□□	•
Ta.		tue II e ve
Chino	nperature Con	trollers
Series Name	Temperature Controllers	1:n
LT	LT23 200- 200- LT23 200- 200- 200- 200- 200- 200- 200- 20	•
	LT3	•
	LT3□□□□A□0-□□□ LT3□□□□S□0-□□□	•
	LT4R	•
	LT4A	•
JU	JUDDDDDD513 JUDDDDDDD613	•
Fenwal Con	trols of Japan	
Series Name	Temperature Controllers	1:n
AL Series	AL24R-	•
Fuji Electric Series Name	Temperature Controllers	1:n
Micro Controller-X	PXR3□□□1-□□M00	•
(PXR)	PXR3 1- 1- V00  PXR4 M00	•
	PXR4□□□-□□V00	•
	PXR5 1- 1- V00	•
	PXR9□□□1-□□M00 PXR9□□□1-□□V00	•
OMRON	1 XXXXIII II III VOO	
Series Name	Temperature Controllers	1:n
E5_N Digital Temperature	E5ENFLK E5CNFLK	•
Controller	E5GN-	•
Modular Dual Loop	E5AN	•
Temperature Controller		
RKC Instrun Series Name	Temperature Controllers	1:n
CB Series	CB100 Z-1021*1	•
	CB400 Z-1021*1 CB500 Z-1021*1	•
	CB700 Z-1021*1 CB900 Z-1021*1	•
	CB100	*2
	CB400	
	CB700	*2
SR-Mini	CB900*5/_ H-PCP-A Z-1021*1	*2
SRV	V-TIO-A**1	•
SRX	X-TIO-A**1 F400*	*2 •
REX-F	F400	]*2 <b>•</b>
		*2 • · · · · · · · · · · · · · · · · · ·
	F700	
	F700	*2 <b>•</b>

erature Controller	E5ZN-□□□□□-FLK	•		FCR-15
				FIR-20
C Instrur	nent		FIR	FIR-201
ies Name	Temperature Controllers	1:n	GC	GCS-3
	CB100 Z-1021*1	•	FCL	FCL-13
Series	CB400 Z-1021*1	•		PC-93
	CB500 Z-1021*1	•	PC-900	PC-93
	CB700 Z-1021*1	•		PC-95
	CB900 Z-1021*1	•		PC-95
	CB100	•	PCD-33A	PCD-33A
	CB400	•	JCR-33A	JCR-33
	CB500*5/_*2	•	JCD-33A	JCD-33
	CB700	•	JIR-301-M	JIR-30
	CB900*5/_*2	•	DCL-33A	DCL-33A
-Mini	H-PCP-A Z-1021*1	•		
.V	V-TIO-A**1	•	Toho Densh	ıi
X	X-TIO-A-\_\-\*\\\-\*1	•	Series Name	Temperatu
	F400	2	TTM-004	TTM-004
X-F	F400	2	TTM-X04	TTM-X04
	F400	2	TTM-00B	TTM-00B
	F700	2	TTM-10L	TTM-10
	F700	2	TTM-100B	TTM-100B4-
	F700	2	1 1 W- 100B	TTM-100B8-
	F900	2		TTM-114
	F900	2	TTM-110	TTM-115
	F900	2		TTM-117
	H-PCP-J-[]4[]-D*[][*1	•		TTM-119
Mini HG	H-PCP-J5D**1	•	TTM-110B	TTM-110B
	H-PCP-J1-D**1	•	TTM 400	TTM-124
	H-PCP-J4-D*-*1	•	TTM-120	TTM-125
	H-PCP-J5-D**1	•		TTM-127
900	MA900-4	•		TTM-129
1900	MA900-4	•	TTM-300	TTM-304
	MA900-4	•	1 1 W-300	TTM-305
	MA901-8	•		TTM-309
	MA901-8	•	TTM-300B	TTM-300B-□
	MA901-8		TTM-1020	TTM-1520-
.900	HA900		11101 1020	TTM-1521-
.500	HA900			TTM-1522-
	HA900			TTM-1523-
	HA900			TTM-1524-
	HA901			TTM-1525-
	HA901-\_\_\-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			TTM-1920-
	HA901			TTM-1921-
	HA901			TTM-1922-
	HA901			TTM-1923-
400	HA400			TTM-1924-
	HA400	4 ●		TTM-1925-

KC Instrur	nent		Yamatake	
eries Name	Temperature Controllers	1:n	Series Name	Τ
14.400	HA400*6/_/_*1	•	000	I
IA400	HA400*7\/_\/_*1	•	SDC	L
	HA400*8/_/_*1	•		L
	HA401*6/_/_*1	•		L
	HA401*8/_/_*1	•		L
	HA401*6/_/_*1	•		L
	HA401*7\/_\/_*1	•		
	HA401-\\*\\*\_\-\\\\\\\\\\\\\\\\\\\\\\\\	•	DMC	
A200	SA200*6_/_/_*1	•	Yokogawa	M
E100	I E100.□□±□5□.□□*2			т

_00			Iokogawa			
100	LE100*5*2	•	Series Name			
,	*1 MODBUS protocol supported. *2 RI	C protocol supported.	UT100			
naden	maden					
es Name	Temperature Controllers	1:n				
	SR253	•				
253	SR253	•				
	SR2537	•	UT2000			
			012000			

	SR253	•
SR253	SR253	•
	SR2537-	•
	SR825	•
SR80	SR8277	•
	SR835	•
	SR83777	•
	SR845	•
	SR8477	•
	SR91-□□-□□-□5□	•
SR90	SR92-□□-□-□□-□5□	•
	SR92-□□-□-□□-□7□	•
	SR93-□□-□-□05□	•
	SR93-□□-□-□07□	•
	SR94-□□-□-□05□	•
	SR94-□□-□-□07□	•
MR13	MR13	•
IVIK 13	MR13	•
FP93	FP93	•
FF93	FP937	•
SD16	SD16-□□□-□□5□	•
2016	SD16-□□□-□□7□	•
EM70	EM70	•
EIMI/U	EM70	•
Shinko Tecl	nos	

	EWI7U-LLL-LLL1/L	
Shinko Techn	IOS	
Series Name	Temperature Controllers	1:n
С	CPT-20A	•
FC	FCD-13A□□ ,C	•
FC	FCD-13A□□ ,C5	•
	FCD-15A□□ ,C	•
	FCD-15A□□ ,C5	•
	FCR-13A□□ ,C	•
	FCR-13A□□ ,C5	•
	FCR-15A□□ ,C	•
	FCR-15A□□ ,C5	•
	FIR-201-M□□ ,C	•
FIR	FIR-201-M□□ ,C5	•
GC	GCS-300□□,C5	•
FCL	FCL-13A□□,C5	•
	PC-935□□ ,C	•
PC-900	PC-935□□ ,C5	•
	PC-955□□ ,C	•
	PC-955□□ ,C5	•
PCD-33A	PCD-33A-□/M, □ C5	•
JCR-33A	JCR-33A-□/M, C5	•
JCD-33A	JCD-33A-□/M, C5	•
JIR-301-M	JIR-301-M, ☐ C5	•
DCL-33A	DCL-33A-□/M, □ C5	•

PCD-33A	PCD-33A-□/M, □ C5	•
JCR-33A	JCR-33A-□/M, C5	•
JCD-33A	JCD-33A-□/M, C5	•
JIR-301-M	JIR-301-M, ☐ C5	•
DCL-33A	DCL-33A-□/M, □ C5	•
Toho Densh	ni	
Series Name	Temperature Controllers	1:n
TTM-004	TTM-004 A	•
TTM-X04	TTM-X04	•
TTM-00B	TTM-00B	•
TTM-10L	TTM-10L	•
TTM-100B	TTM-100B4-	•
1 TW 100B	TTM-100B8-	•
TTN 446	TTM-114	•
TTM-110	TTM-115	•
	TTM-117	•
	TTM-119	•
TTM-110B	TTM-110B	•
TTM-120	TTM-124	•
1 1 IVI- 120	TTM-125	•
	TTM-127	•
	TTM-129	•
TTM-300	TTM-304N	•
1 1 W-300	TTM-305 N	•
	TTM-309 N	•
TTM-300B	TTM-300BN	•
TTM-1020	TTM-1520-	•
11101 1020	TTM-1521-	•
	TTM-1522-	•
	TTM-1523-	•
	TTM-1524-	•
	TTM-1525-	•
	TTM-1920-	•
	TTM-1921-	•
	TTM-1922-	•
	TTM-1923-	•
	TTM-1924-	•
	TTM-1925-	•

Series Name	Temperature Controllers 1:n				
	SDC20	•			
SDC	SDC21	•			
	SDC30	•			
	SDC31	•			
	SDC40A	•			
	SDC40B	•			
	SDC40G	•			
DMC	DMC10	•			

Series Name	Temperature Controllers	1:n
	UT130	•
UT100	UT150	•
	UT152	•
	UT155	•
	UP150	•
UT2400-		•
UT2000	UT2800-□	•
LITOROGO	UT3040-□□1	•
UT3000	UT3080-□□1	•
	UT3160-□□1	•
005511050150	UT320-□1	•
GREEN SERIES	UT350-□1	•
	UT420-□7	•
	UT450-□1	•
	UT450- <u></u> 2	•

#### Servos

Matsushita Electric

Series Name	Servos	1:n
MINAS-A	M_DA	•
MINAS-S	MUDS	•

#### Analyzer

Γ Engineering				
Series Name	Analyzer	1:n		
E-70	IE-70			

#### **■ Bar-Code Readers**

2-D Code Reader (Connected to Expansion Serial Interface)				
Series Name				
Tohken	THIR-3000			
	THIR-3000H			
Denso	QS20H			
	OS20H-I			

#### Bar Code Readers (Connected to Tool Connector)

	Series Name	Туре	
Aimex	BR-331 PC2	Pen	
OPTO	OPT-1105-RSK 98 Set	Touch Scanner (Read Width: 60mm)	
Electronics	OPT-5105-RSK 98 Set	Touch Scanner (Read Width: 80mm)	
Licetionies	OPL-6735-RSK 98 Set	Touch Scanner (Read Width: 100mm)	
Tohken	TCD-5510M	Touch Scanner (Read Width: 65mm)	
Tonken	TCD-5510L	Touch Scanner (Read Width: 82mm)	
TCD-5510W		Touch Scanner (Read Width: 105mm)	
NEC	BCK5435-STA	Touch Scanner (Read Width: 56mm) *1*2	
Infrontia	BCK5535-STA	Touch Scanner (Read Width: 85mm) *1*2	

"I Be sure to use the Y cable included with the unit and connect it between GP unit and a bar-code reader. Data cannot be read correctly, if a non-"Y" cable is used, or if the bar-code reader is connected directly to the GP unit.

'2 The following settings must be entered prior to using the bar-code reader with a GP unit.

'3 Set the CAPS.

2) Add the Carriage Return (CR) in the Postamble's settings.

For the details about these settings, please refer to the Installation Guide included with the bar-cord unit.

Bar-Code Readers (Connected to Expansion Serial Connector)							
	Series Name Type						
Aimex	BR-730RS	Pen					
Allilex	BR-530RS	Pen					
	BW-665RS	Touch Scanner (Read Width: 65mm)					
OPTO	OPT-1125-RS232C-K	Touch Scanner (Read Width: 60mm)					
Electronics	OPT-5125-RS232C-H	Touch Scanner (Read Width: 80mm)					
Licotronics	NFT-7175-L-RS232C	Fixed Type (Read width: 60mm)					
0	LS4004	Laser Scanner					
Symbol Technology	LS4004i	Laser Scanner					
recrinology	LS6004	Laser Scanner					
	LSH3502AHV	Laser Scanner					
Keyence	BL-80R	Touch Scanner (Read Width: 105mm)					
Denso	HC36TR	Touch Scanner (Read Width: 61mm)					
Deligo	HC61TR	Touch Scanner (Read Width: 61mm)					

#### Speakers

	Series Name	Connection Port		
Arrow	NS-38	SP OUT, GND		
Electronics	NS-105	31 001, GND		
Noboru	NP-110			
Electric	FA-101			
	NAC-2031B			
*OP0000/0500/0400 O!!-				

'GP2600/2500/2400 Series only.

'The equipment in the above list is supported by "2000 series" or newer GP models. Some of this equipment is not supported by earlier GP models. There are also precautions and other information related to their connection. For details, please refer to the Device/PLC Connection Manual.

New equipment is being added to this list regularly. Please consult your Pro-face sales representative for the latest information.

\*\*n::(Multi-link) = multiple GPs: 1 PLC \* 1:n = 1 GP: multiple PLCs \* n:m = multiple GPs: multiple PLCs

\*\*Some usage restrictions exist for Pro-Server. Please refer to the Pro-Server User's Manual for details.

#### **EASY SCREEN CREATION & LOGIC PROGRAM DEVELOPMENT**

Screen Editor and Logic Program Development Software

# GP/PRO/PBIII-C-Package







# High Visibility Menu Screen. **Easy Programming for Beginners.**

The Parts Palette and Editor Screen now appear in the same screen, so you can place parts quickly and easily by simply dragging them from the palette and dropping them on the screen. Positioning the cursor over a tag icon also brings up an explanation of that tag's operation, to help you create and edit screens.

#### Flexible screen design using tags

- Simultaneously display up to three windows. (Two U tag windows, three windows in total)
- Display the alarm history (Q tag).
- Easy, panel-touch operation setting (T tag).

#### **Attractive Fonts**

## Windows font display

Windows fonts can be displayed as bitmap data on the GP screen just as you want them.

### Integral-multiple fonts

Now you can enlarge fonts in the usual scaling factors of 1, 2, 4 and 8, and in any magnification rate between 1 and 8. This lets you precisely adjust character size to match your layout.



#### Beautiful Graphics

# Select from 1.200 image

Create screens quickly and easily by simply arranging parts and marks selected from 1,200 available types.



#### Create and use your own BMP parts

Create your own parts or use parts created in the past.



Illustrations



#### Photos Logos

## **Worldwide Compatibility**

#### Touch panel language switching

By simply presetting a multiple language table on the touch panel, you can switch the text display with a single touch during operation. The import/export function for multiple language tables lets you easily input and translate CSV files.



# **Upgrade Points** - **C** - Package 03

# **EASY SCREEN CREATION**

# Time Scheduling

This function makes it easier to set up devices and handle routine tasks.

Bit On/Off and word setting can be scheduled by day of the week or for a specific time. The weekly and time setting can also be changed on the display device.



# Improved Keypad **Display Function**

We expanded the setting parameter display function for more efficient onscreen input.

- Touch input for input mode activation.
- A sequence designation function for inputting multiple items (with the group function).
- Designation of the change notification bit for individual setting parameter displays.
- A more flexible arrangement for the popup keyboard.



# Improved Editing

We made about 30 improvements to further enhance usability and convenience.

# Security Level Function

Restrict user access depending by operator level.

Use the 15-level password protection function to restrict access to specific screens, such as management and maintenance screens.

This protection function helps to improve screen security, which also means greater safety for machines that are unattended or installed off-site.



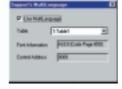
# Expanded Alarm Summary **Display Function Using Q Tags**

We expanded and improved the Q tag function for alarm display.

- Generation count, cumulative time and level information added.
- Alarm sorting function (by date, generation count, etc.).
- The number of blocks were increased from the previous 3 to 8.
- Different colors for different level messages.

### Text Screen's Multi-language **Function**

The text screen now supports multiple languages. A and X tags can be used to display different languages.



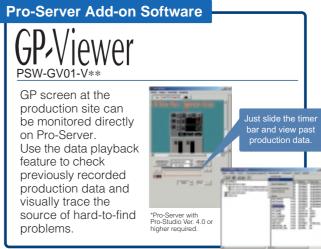
#### **REAL-TIME DATA COLLECTION**

**Data Collection Software** 

PSW-FD01-V\*\* Data from the production sites can be collected by Pro-Server and sent to various PC applications in real-time. Automatic collection of production data makes great support for

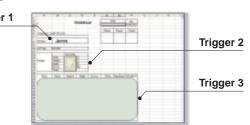
improving both productivity and quality.





#### NEW EXCEL REPORT

Use multiple provider triggers to collect data on a single sheet



- Update data with the Excel window open.
- Paste not only device values but also text strings and JPEG images from logging, trend and other stored data.
- Use delivery triggers to switch or print worksheets and books.

#### DEVICE VIEWER

View past or present production data as easily as you would view a video.

Automatically records and collects production data, for immediate playback of either past or present line operating conditions.

- Immediately send out orders from your office to the factory.
- Alert control staff to important alarms.
- Share Device/PLC Data Regardless of the Manufacturer.
- Remote Screen Image Capturing.
- Re-use Collected Data in Other Software Applications. (Excel, SCADA, OPC, SQL, DDE, API)

### **REMOTE MONITORING**

**Web Operation Software** GW-CJ01-V\*\*



The GP screen can be remotely monitored on a Web browser, saving both time and costs.

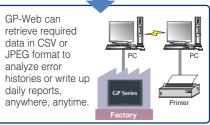
- Access a wide variety of vital production data from remote locations.
- Just connect GP-PRO/PBIII data without special programming.
- Monitor production conditions anytime, anywhere.

## Check the conditions in real-time

Using GP-Web, data from distant production sites can show actual conditions in real-time



# **Create documents anywhere!**







Troubleshoot from a distance!

# Share General-Purpose Data for Editing

DXF

TXT Notepad, Wordpad

AutoCAD\* (Autodesk)

CSV Excel (Microsoft)

Photoshop (Adobe)

**BMP/JPG** 

RTF Word (Microsoft)

Media Player (Microsoft

WAV

\* Can be used for a Belease 12 program

# **GP-PRO/PBIII C-Package03** Software Environment Specifications

Product No.	PC	Resolution	Hard Disk Space	Memory	Drive Type	os	Network Protocol
GPPRO-CNT01W-P03	/indows® compatible C with Intel PentiumII 66MHz or faster.	SVGA (800 x 600 pixels) or higher		Minimum: 32MB Recommended: 64MB or more	Drive	Windows® 95/98/2000/Me/XP Windows NT® (4.0 or later) (Windows NT® 4.0: Service Pack 3 or later)	TCP/IP (Set from the control panel)

21 Software Software 22

# Accessories

# NETWORK INTERFACE UNITS The background color of each cell shows the connectability of the unit to a GP in each of the GP Series system designs











**Bus Conversion Unit** for GP-2600/2500/2601/2501 Series PSL-CONV00 C€ ® .®

DeviceNet Slave Unit\*1 CA1-DNSALL-21 C€

**DeviceNet** DeviceNet Slave Unit\*2 GP070-DN41 (€ ® .®





PROFIBUS Slave Unit\*2

GP070-PF11





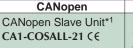




**INTERBUS** INTERBUS Slave Unit\*2 GP070-IB41 (€ ® .®

T-Link I/F Unit\*2 GP450-7B21

Ethernet Ethernet I/F Unit\*2 GP070-ET41 (€ ® .®



for GP-2601/2501 Series

**GP077-MLTE41 (€ ® . ®** 

**MELSECNET** MELSECNET/10 Unit\*2 (Optical loop type) GP070-MNL11



**MELSECNET** 





for GP-2600T, 2500T

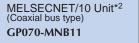
GP2000-VM41 C€ ® ⋅®

Video-mix Unit





for GP-2601/2501 Series GP077-MLTS11



GP070-CL11 For the Remote Device Station GP077-CL11\*3
For the Intelligent Device Station

CC-Link I/F Unit\*2

### OPTIONAL ITEMS









GP410-IS00-O









A, QnA Series

GP430-IP10-O



CPU I/F Cable for Mitsubishi PLC FX Series GP2000-CBLFX/1M-01 GP2000-CBLFX/5M-01



for the Two-port

GP070-MDCB11

GPW-CB02





On A. FX Series

GP070-MD11







PSM-PRCB00



Multi-link Cable

GP230-IS12-O





56MB)/512 (512MB)

GP070-CN10-O



GP077-CFAD10



CF Card Front Maintenance Unit GP077-CFFM10 (for GP-2600T/2500T)

Backlight*	Installation Gasket	Connector Cover	Screen Protection Sheet
PS600-BU00 (For GP-2600T, 2601T)	GP570-WP10-MS	PS-BH00	PSL-DF00
GP577RT-BL00-MS (For GP-2500T, 2501T) PS500S-BU00 (For GP-2500S)	(For GP-2600T, 2500T/S/L, 2601T, 2501T/S) PS400-WP00-MS	Installation Fastener	(For GP-2600T, 2500T/S/L, 2601T, 2501T/S) PS400-DF00
PS501S-BU00 (For GP-2501S)	(For GP-2400T, 2401T)	GP070-AT01	(For GP-2400T, 2401T)
PS400-BU00-MS (For GP-2400T, 2401T)	PS300-WP00	Screw Lock Terminal Block	PS300-DF00
PS300-BU00 (For GP-2300L, 2301S/L)	(For GP-2300 Series)	GPM-AXCN01 (For GP-2601T, 2501T/S/L, 2401T)	(For GP2300 Series)

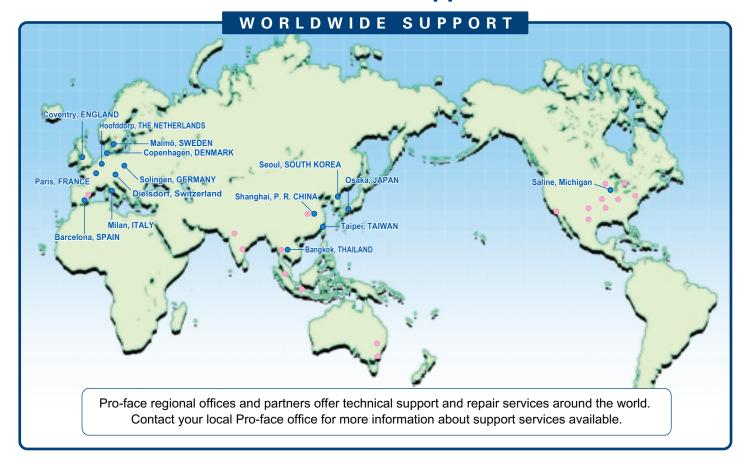
<sup>\*</sup> The GP-2500L/2501L/2300T/2301T's backlights cannot be replaced by the user.
When the backlights need to be replaced, please contact your local GP distributor

# OPTIONAL ITEMS FOR HAND-HELD MODELS

RS-232C Open-end Cable (3m)	RS-232C Cable with D-sub (3m)	RS-232C Adapter	RS-422 Open-end Cable (3m)	RS-422 Cable with D-sub, (3m)	RS-422 Adapter
GP2000H-C232-3M	GP2000H-D232-3M	GP2000H-AP232	GP2000H-C422-3M	GP2000H-D422-3M	<b>GP2000H-AP422</b>
RS-232C Open-end Cable (10m) GP2000H-C232-10M	RS-232C Cable with D-sub (10m) GP2000H-D232-10M		RS-422 Open-end Cable (10m) GP2000H-C422-10M	RS-422 Cable with D-sub, (10m) GP2000H-D422-10M	

Accessories 24

# Smooth system integration of Pro-face products is assured with a total support network.





# www.pro-face.com

#### **Worldwide Contacts:**

General Info: info@pro-face.com Technical Info: support@proface.co.jp Pro-face products and component parts bearing the CE Mark and the UL or C-UL Listing and Recognized Component Marks are your guarantees of compliance with safety standards accepted in countries and regions worldwide.

Conformity with International Safety Standards





#### Caution: Before operating any of these products, please be sure to read all related manuals thoroughly.

- For printing purposes, the colors in this catalog may differ from those of the actual unit.
- Actual user screens may differ from the screens shown here
- LCD screens may exhibit minute grid-points (light and dark) on the Display Panel surface. Also, 
  "Contouring" where some parts of the screen are brighter than others, producing a wavelike pattern 
  may occasionally occur. Both are normal for an LCD display and are not defects.
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NP040514-GP2000-05F20

<sup>\*1</sup> To be sold at only Pro-face Europe B.V.. For further information, please contact Pro-face Europe B.V..
\*2 When using a GP70/77R Series Expansion Unit with GP-2600/2500/2601/2501 Series Unit, the optional

Bus Conversion Unit (PSL-CONV00) is required. There Unit are not support with GP-2400/2300/2401/2301 Series.

\*3 Bus Conversion Unit (PSM-CONV00) is required. Be careful when installing, because this unit will protrude from the main body