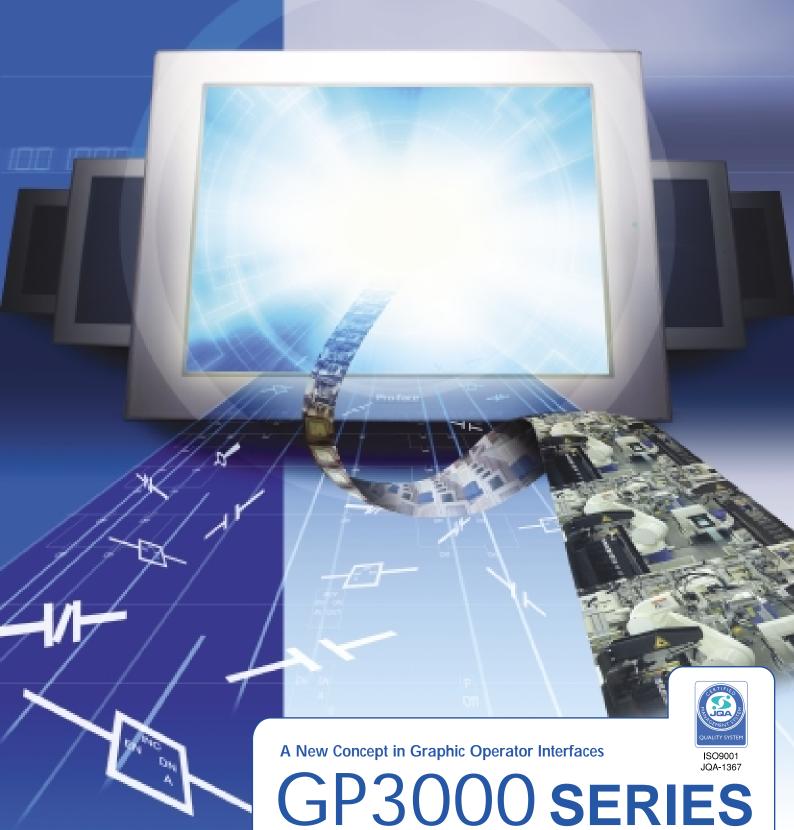
## **Pro-face**®

## Introducing New Generation of the Manufacturing Command Center, the 6P3000 Series

It's the next step in the evolution of the GP3000 Series. We now offer the industry's broadest model selection and software with enhanced features.



## Introducing new models incorporating HMI4

Introducing a full product line of 50 models across three classes



With visual representation features such as video recording

 $-5\overline{\text{models}}$ 





Intelligent C Class: Enable to expand I/O function directly as well as operation and display of Host Controller.







Equipped with monitor interfaces. Additional functions enhance performance for a more pleasant

field environment.







#### **External Interfaces in brief**



#### Serial Interface

COM1: RS-232C/RS-422/RS-485 serial interface. D-SUB 9-pin male connector. Communication method can be switched via software.

COM2: RS-422/RS-422/RS-485 serial interface. D-SUB 9-pin female connector.



#### **USB Interface (Host)**

USB 1.1-compatible interface. Uses Type-A connectors. Can be connected to USB printers, USB Barcode Readers and others.



#### CF Card Interface

This interface accepts CF cards for filing recipes or data backup.



#### Expansion Unit Interface

This interface accepts an Expansion Unit with built-in communications functions.



#### Ethernet Interface (LAN)

Ethernet communications (10 BASE-T/100 BASE-TX) interface, IEEE 802,3u-compliant Accepts RJ-45 modular jack connector (8 pin).

#### VM Unit Interface

The VM Unit can be connected through this interface. Four cameras can be connected to



#### AUX/Sound Output Interface

This interface accommodates external reset alarm output, buzzer output, and sound output.

#### Video Input Interface

This interface connects to a video camera. NTSC/PAL/SECAM compatible. RCA Connector is used.



#### Sound Input Interface

This interface connects to a microphone with a miniiack connector.

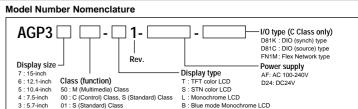
#### DIO Interface

Connects to external devices such as switches and lamps.



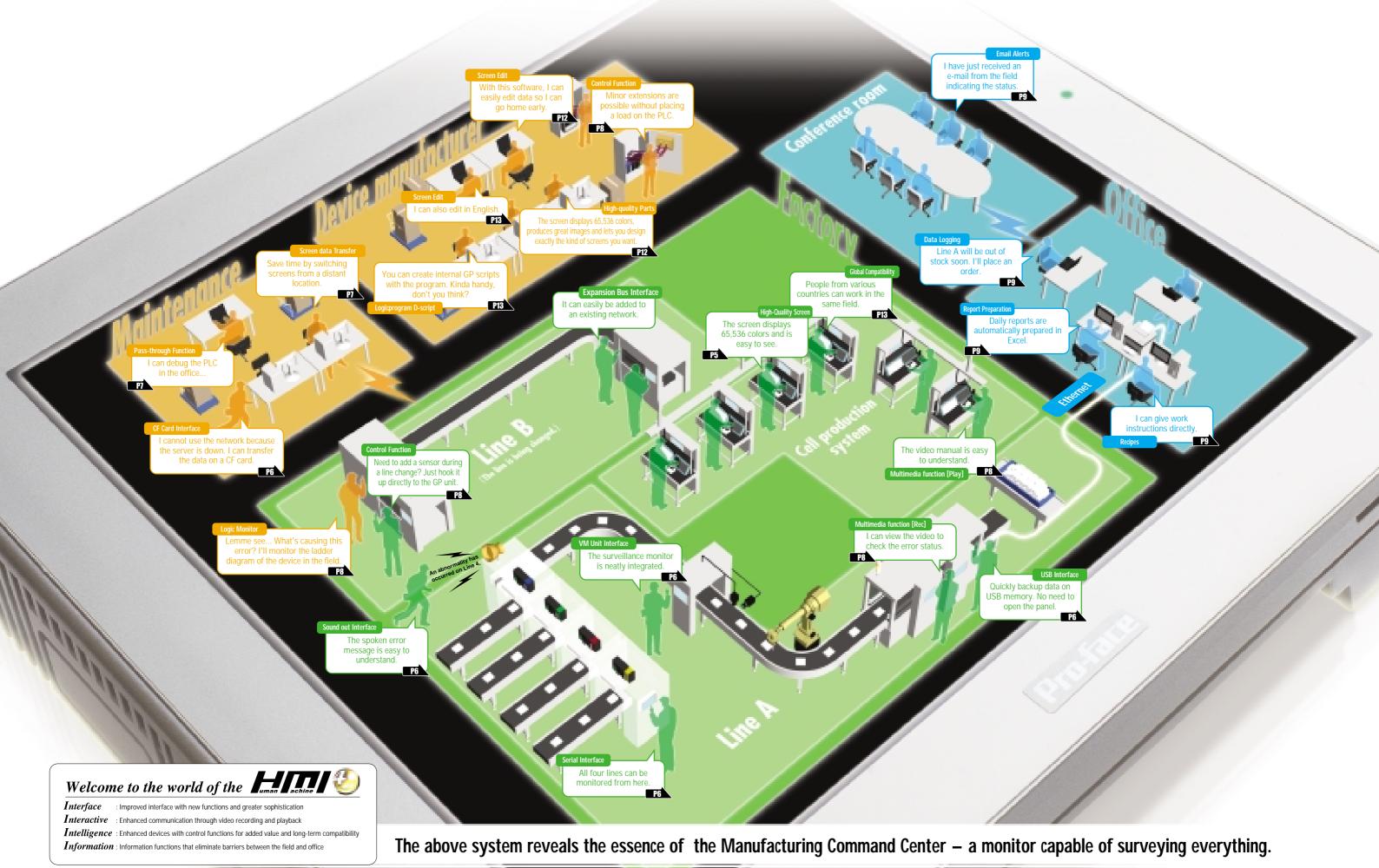
## FLEX NETWORK Interface

Connects to the compact FLEX NETWORK



Note: Additional suffixes indicate various added functions

## An Advanced Factory Automation System Incorporating Harris (1)



## Advanced specifications provide comfort for users and creators.

Images are appealing and the high-quality screen offers excellent visibility.

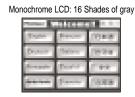
## O The GP3000 Series (TFT type) displays 65,536 colors standard.

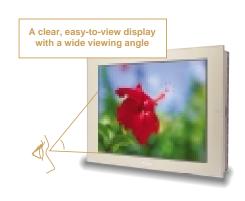
The subtle colors of JPEG and BMP files are clearly displayed at high resolution. This is a standard feature and requires no additional equipment.

TFT color LCD: 65,536 colors





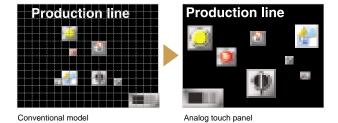




Clear display, with free object placement.

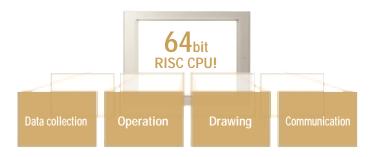
## O All GP3000 Series models feature an analog touch panel.

The analog panel improves visibility. Because the screen has no grid, parts can be placed wherever desired.



3

Quick responsiveness for stress-free screen processing.



#### O High-speed data sampling

Results of 100-ms(max) data sampling can be displayed in a detailed trend graph.

## O The GP3000 Series uses a 64-bit RISC CPU for the fastest processing speed in the industry.

Smoothly processes large amounts of screen data. Up-to-date specifications ensure a long service life.

#### O Featuring a proprietary image processor

Large models with high pixel counts feature a proprietary image processor. Smoother reproduction of animation and image drawing speed.

## O High-speed communications with more powerful interfaces

The 100BASE-TX Ethernet interface provides faster data transfer.



#### 1 Various devices can easily be connected via USB.

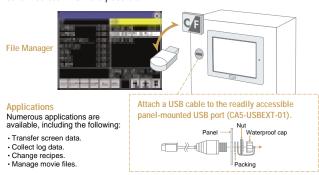
USB interface x 2-ch standard (host).\*



\*1-ch for 7.5-inch and 5.7-inch types

#### File Management

By using File Manager, data transfer between a USB flash drive and CF card inserted in GP are possible.



#### 2 Ethernet interface for easy communication with the host PC.

Enhanced Ethernet interfaces included as standard.

#### 3 Two serial ports provided as standard.

COM 1\*: RS-232C/RS-422/RS-485 COM 2: RS-422/RS-485 \*AGP-3302B only as for RS-232C.

#### 4 CF cards enhance the convenience of the GP3000 Series.

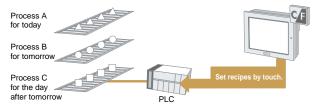
The logging function increases the efficiency of documentation.



Note: SRAM data can be output with the sampling print function. CSV data on a CF card can be output with a CSV display.

Note: SRAM data can be output with the sampling print function. With the CSV monitor, you can output CSV data from a CF card

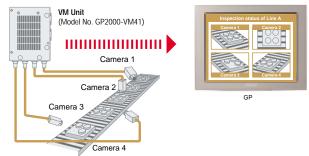
#### The CSV data transfer function makes it easy to change the PLC's settings.

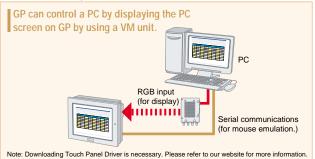


#### 5 VM Unit Connection

With a VM unit(option), visual monitoring of work details and conditions on the production site is available in real time. Up to four cameras can be connected, and all the 4 images are displayable on one GP screen.

Note: Not all the models can connect the VM unit. For a list of the compliant models, please refer to our website.



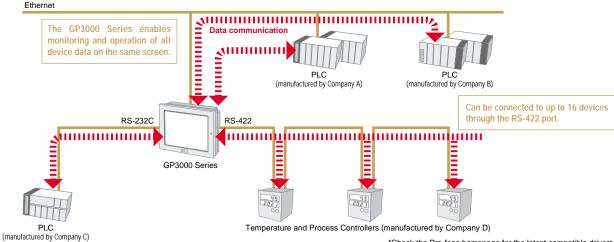


## This class is pursuing convenience such as maintenance and management.

# Communicate with up to four types of devices\*

Communicate with four devices simultaneously and manage all information with one machine. Pro-face is the leader in the number of communications drivers supported.

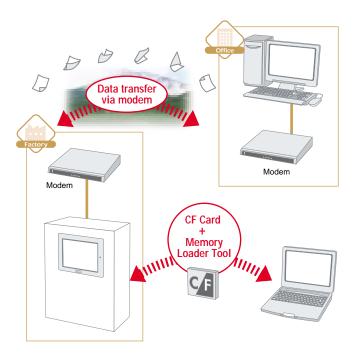
\*5.7 inch models enable simultaneous communication with up to two types.



\*Check the Pro-face homepage for the latest compatible drivers.

# Screen Data Transfer

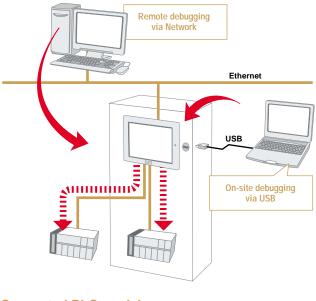
Besides CF card, Screen data transfer via modem is now available.



Note: To open a project file directly from backup data on CF card, the dedicated Memory Loader Tool is necessary to be saved together on CF card.

## Pass-through Function

You can easily perform debugging of the PLC via Ethernet, even from a PC located in a remote office.



#### Supported PLC models

- Mitsubishi Electric Q Series with CPU direct connection
- Mitsubishi Electric QnA Series with CPU direct connection
- Mitsubishi Electric QUTE Series with CPU direct connection

Note: For the operating environment, please refer to our website.

## Use audio and video in the field or at the office.

This class features multimedia functionality for more user-friendly operation with sound and video.

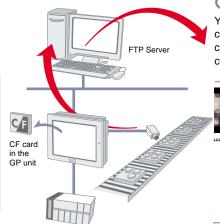
#### O Movie File Playback

You can use the display of the GP3000 to play back movie files. Simply select the desired files from a CF card or FTP server. You can play selected movies repeatedly.



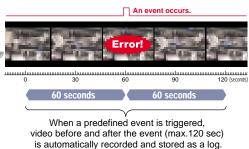
Note: Any movie files you create must be converted with converter tool to use on GP or office PC. It is necessary to movie converter tool.

(Movie Converter License/ Model No. EX-MOVCON-LICENSE)



#### O Event Recorder

You can record video and audio from a video camera connected to the GP3000. This file CF card inserted into the GP or on an FTP server connected via Ethernet.



Fast & Accurate Troubleshooting

Intelligence >>



< for C class >

## Accommodates simple sub-control and future expansion.

This class features flexible system expansion and control functionality which assists PLC.

#### O Control Functions

You can easily add a variety of control devices. To the DIO types, you can directly connect various components such as buttons and lamps. And the FLEX NETWORK type allows space-saving connections with less wiring.

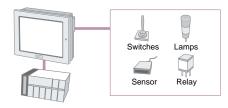
## DIO type for direct connection to components

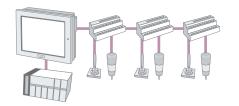
DIO (sink) type: 6 inputs/2 outputs DIO (source) type: 6 inputs/2 outputs

A wide range of components can be used for ON/OFF control.

## FLEX NETWORK type featuring I/O expansion.

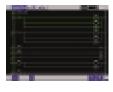
Maximum number of expansible I/Os: 512 bit I/Os (256 inputs and 256 outputs) 128 integral I/Os (64 inputs and 64 outputs)





#### O Logic Monitoring Function

You can check logic programs in GP on GP screen at site.



Logic display

Displays an entire logic program so you can check the operating status and the layout of instructions.



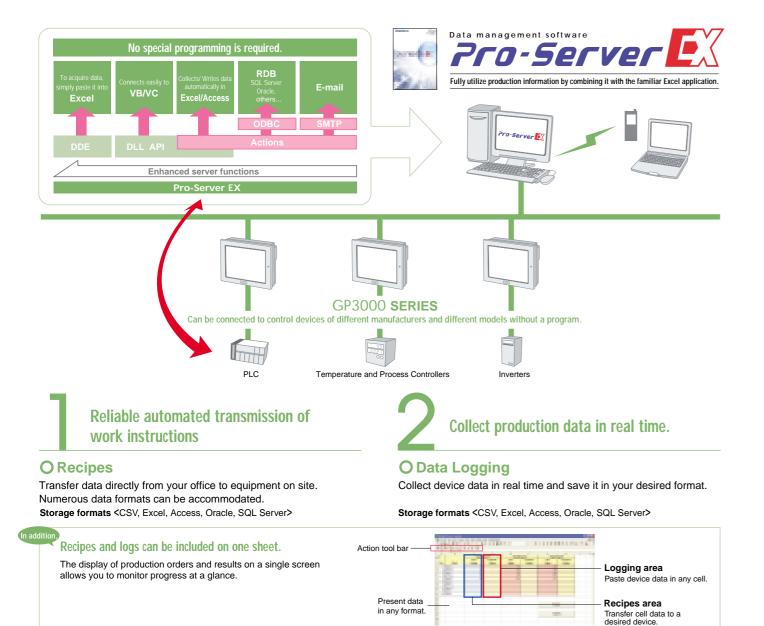
Address display

The addresses used in a logic program are listed so you can verify the names and current values of variables.

Migrating logic programs from GLC2000 Series to GP3000 Series may cause some differences in functionality. For details on restrictions and functional differences, see "Otasuke Pro!" (http://www.pro-face.com/otasuke/)

Information  $\gg$ 

## Simple, low-cost software for constructing a network between the office and the field.



Share information by creating reports in Excel.

#### **O** Report Preparation

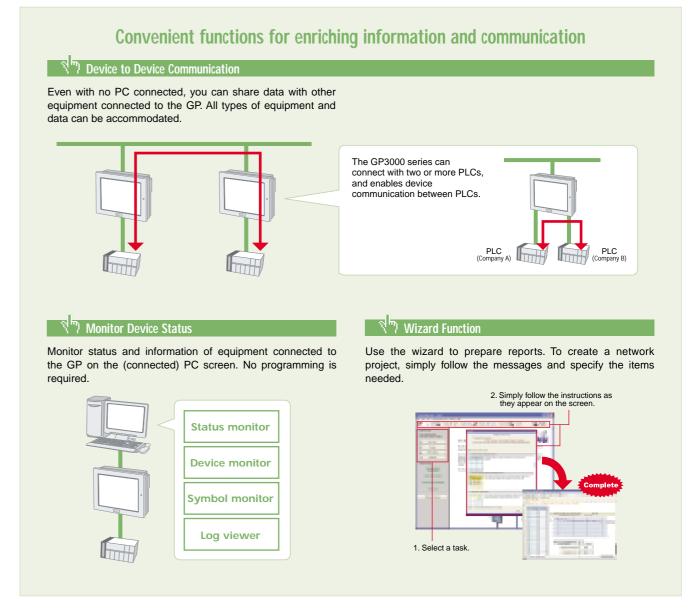
Compile data from devices into structured reports using templates

# Receive e-mail alerts of abnormalities in the field.

#### O E-mail Alerts

Arrange to receive an e-mail alert whenever a certain event occurs.

### and Excel's edit functions. 29 standard templates ·Daily report, ·Work progress control ·Work plan ·Andon signal panel Production management board Reduction of man-hour transision graph First-run rate transition graph Setup work planning and result management board Staff assignment management board



#### Pro-Server FX Operating Environment

Pro-Server EX Operating	5-Server EX Operating Environment					
PC	PC/AT compatible with Windows® operating system (Not compatible with NEC PC9800 Series.)					
os	Windows® 2000 (Service Pack 3 or later), Windows® XP Home Edition / Professional Note: Administrator privileges are required to install this software.					
CPU	Intel® Pentium® III 500MHz or more (Pentium® III 800MHz or more is recommended)					
Resolution	800 x 600 (SVGA) or more, 256 colors minimum, 96 dpi font only					
Memory	128 MB or more (256 MB or more is recommended)					
Hard Disk Space (required for installation)	1 GB or more (2 GB or more is recommended)					
Software Menu Languages	English, Japanese					
Language FEP	FEP supported by the above OS					
	Microsoft <sup>®</sup> Excel 2000 or later (when ACTION function is set)					
Other software	Microsoft <sup>®</sup> Access 2000 or later (when ACTION function is set)					
Other software	Microsoft ®Internet Explorer Ver. 5.0 or later (when ACTION function is set)					
	.NET Framework Ver.1.1 (Service Pack1)					
Printer	Any model supported by the above OS					
Network adapter	10BASE-T, 100BASE-TX					
Network protocol	TCP/IP (Specified in Windows Control Panel)					

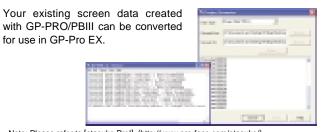
Support models GP3000 Series \*Not Supported by AGP-3301S/ AGP-3301L/ AGP-3302B.

# GP-Pro EX simplifies the engineer's goal - combining design with functionality. Now you can easily create ideal user interfaces.



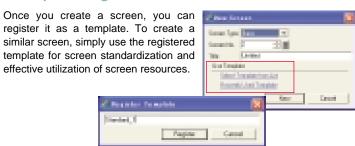
### Easily incorporates existing data resources to reduce the number of drawing steps.

#### File Converter



Note: Please refer to [otasuke Pro!]. (http://www.pro-face.com/otasuke/)
Prior to conversion, be sure to read Notes and differences for data conversion.

#### **Template Registration**





#### Display project information on the main unit offline.

You can view drawing information on the display such as download data, download person, and edit software version. This feature makes maintenance even more convenient.

## Parts

#### **O High-quality Parts**

A wide variety of attractive and easy-tounderstand parts are prepared. Pictorial symbols can be used to create operator screens that overcome language barriers.



#### **O** Multifunction Switches

Multiple functions can easily be assigned to a single switch without changing the existing functions.



#### ON Delay / OFF Delay / Double Touch Switches

ON-Delay, OFF-Delay and Double-Touch Input can be easily configured in switch setting screen to effectively prevent erroneous operations.

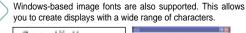


### 

#### **O Stroke Fonts**

Beautiful stroke fonts provide greater layout flexibility. They can be bolded, outlined and smoothly enlarged / reduced in single-dot increments.







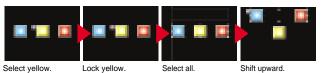


Note: For supported languages, please refer to "Operating Environment for GP-Pro EX" on Page 13.

### Starting Function

#### **O Fixing Pin Function**

Placed parts or other objects can be fixed to the background to ensure smoother operation.



Shift upward. Yellow remains locked in position.

### O Guideline Display

Positioning of objects can be visually done. By automatically detecting the position of the already placed object, this function helps you to align a newly added or moved object with it.



#### O Pasting Images

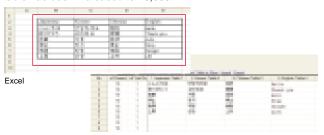
Image files (BMP and JPEG) can be freely pasted as well as enlarged/reduced.



## Global Compatibility

#### **O Text Tables**

Easily switch between various languages on the same screen. Simply use copy & paste functions to place data into the text table after translation in CSV or Excel. The number of lines in the text table has been increased to 10,000.



## O Language-switching function in drawing environment

The software menu language can be toggled between English and Japanese easily to accommodate operator preference.

#### O Unicode®

In a font corresponding to Unicode, the language of other countries input is possible regardless of a language of the OS. You can also directly capture characters from Web dictionary services.

### **Another Function**

#### O Address Mapping

With drag & drop mouse operation only, address setup can be easily & visually done, ensuring higher efficiency.





Simply clicking on the part ID displays the screen where the relevant part is used.



#### O Error Checking

GP-Pro EX detects errors in a project before the screen data is transferred. When an error is detected, a detailed message is displayed including why, where, etc.



#### O Auto-document

This feature supports smoother document preparation. Simply by selecting necessary items, you can easily create a document.



#### **O** Preview

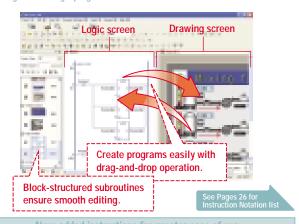
This feature allows you to easily verify the actual display screen in preview mode by allowing the input of dummy data for each part. Screen images can be captured in preview mode to use them for screen specifications.

## The Logic Program · D-script

#### O Logic Program

With the upgraded GP-Pro EX, you can develop logic programs as well as screen creation. You can also use existing logic programs created with the GP-PRO/PBIII C-Package.

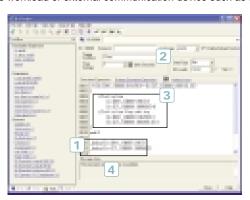
- Symbols for drawing/editing images and variables for creating logic programs are unified.
- Symbol variables for drawing images and creating logic programs are not required to be imported nor exported.
- Block structured subroutines reduce steps for development and management of logic programs.



Not Supported by AGP-3301S/ AGP-3301L/ AGP-3302B.

#### O D-script

D-script is a simplified language which can be programmed on your own. This function enables calculation inside GP and drastically reduces workload of external communication device such as PLC.



#### 1 Debug Function

Using the Debug Function, addresses can be verified on the display terminal. Debug function can be set to be hidden or displayed by using the

2 Triggers Various triggers allow for smooth navigation of operations.

#### 3 Communication between multiple devices

Specify the different devices connected.

4 Message Area Clear, easy-to-understand messages are displayed.

#### **Operating Environment for GP-Pro EX**

	PC	PC Models on which Windows oruns normally.				
	0S	Windows® 2000 (Service Pack 3 or later),   Windows® XP (Home Edition/ Professional Edition)   Administrator permission is necessary when you install this product.				
	CPU	Pentium®III 800MHz or more (Pentium® 4 1.3GHz or above is recommended.)				
	Resolution	SVGA 800x600 or above is recommended. A display of 256 or more colors is required.				
	Memory	512MB or more (1GB or more is recommended.)				
Ha	rd Disk Space	400MB or more *Enough free space to install GP-Pro EX				
Language	Software Menu	English, Japanese (German, Italian, French, Spanish, Chinese, Taiwanese, Korean)* *Language Pack is required for these languages. Please contact your Pro-face sales representative in detail.				
Language	Languages that the GP can Display	European languages, Japanese, Korean, Simplified and Traditional Chinese, Thai, Cyrillic Alphabet. "To input languages other than English and Japanese for the "Languages that the GP can Display", you need to add each language's FEP and fonts.				
Each	Language's FEP	Windows® 2000 (Service Pack 3 or later), Windows® XP (Home Edition/Professional Edition) supported FEP				
		.NET Framework Ver.1.1 (Service Pack1)  *.NET Framework Ver.1.1 (Service Pack1) automatically installs on a PC without it.				
		Internet Explorer Ver.6.0 or later				
	Others	Adobe® Reader® Ver. 6.0.3 or later				
		Mouse, CD-ROM Drive (necessary only at the time of installation) and printer which support the above OS				
		Internet connection is required for the online update feature and the online user registration.				
	OTE THE RESIDENCE OF THE STATE					

NOTE: This operating environment is valid as of May, 2006. Please consult with sales staff prior to purchasing When using a screen from PC, USB port or Ethernet for downloading screen is necessary.

#### **Operating Environment for Transfer Tool**

PC	PC Models on which Windows®runs normally.		
os	Windows 98 (Second Edition or later), Windows 9 Millennium Edition, Windows 92000 Professional (Service Pack 3 or later), Windows 9 XP (Home Edition/ Professional Edition)  *Administrator permission is necessary when you install this product.		
CPU	Pentium ®II 266MHz or above is recommended.		
Memory	128MB or more (512MB or more is recommended.)		
Hard Disk Space	60MB or more *Enough free space to install GP-Pro EX		
Others	Mouse, CD-ROM Drive (necessary only at the time of installation) and printer which support the above OS		

NOTE: This operating environment is valid as of May, 2006.
Please consult with sales staff prior to purchasing.
When using a screen from PC, USB port or Ethernet for downloading scre

#### **Operating Environment for Movie Converter**

PC	PC Models on which Windows®runs normally.		
OS	Windows® 2000(Service Pack 4), Windows® XP (Home Edition/ Professional Edition)(Service Pack2 or later)		
CPU	Pentium® II 1GHz or above is recommended.		
Memory	256MB or more (512MB or more is recommended.)		
Hard Disk Space	60MB or more *Enough free space to install Movie Converter		
Others	Mouse, CD-ROM Drive (necessary only at the time of installation) Windows Media Player 9.0, Dierect x9.0c		

NOTE: This operating environment is valid as of May, 2006.

A codec must be installed on the PC running Movie Converter.

(If movie files can be played normally on the PC, the codec has already been installed.)

A default codec is installed with video' audio players such as Windows Media Player.

## 15-inch Specifications



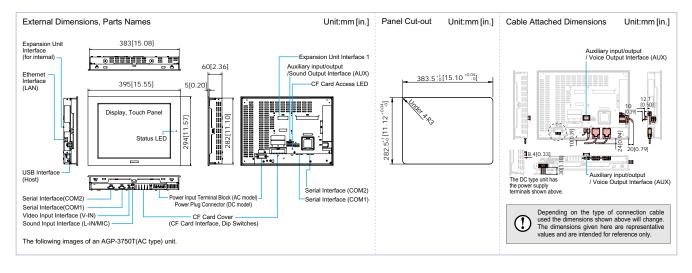
		AGP3750-T1-AF	AGP3750-T1-D24						
FUNCTIO	NAL SPECIFICATION	мс	lass						
Internatio	nal Safety Standards	<b>?J</b> ° ( <b>?</b>	( <b>4</b> ) ( <b>6</b> ) ( <b>9</b> )						
Display Type TFT Color LCD									
Di	splay Colors	65,536 Colors (no blink) / 16,	384 Colors (3-speed blink) *1						
	Backlight	CCFL (Service life: 50,000 hrs.	at 25 °C and 24 hr. Operation)						
Disp	ay Resolution	1024 x 7	68 pixels						
Effect	ive Display Area	306.2mm[12.06in.]	x 230.1mm[9.06in.]						
Brig	ntness Control	8 levels of adjustment a	vailable via touch panel						
Contr	ast Adjustment	_	_						
Lar	guage Fonts	Japanese: 6962 (JIS Standards 1&2)(including 607 non-kanji characters), ANK	, , , , , , , , , , , , , , , , , , , ,						
Text	Character Sizes		e font: 6 to 127 dot fonts (Full-size character: 12 to 254 dot fonts)						
Composition	Font Sizes	Standard font: Width can be expanded up to 8							
	8 x 8 dots	.==	128 Char. x 96 rows						
Text	8 x 16dots	128 Char. x 48 rows							
. •	16 x 16 dots	64 Char. x 48 rows							
	32 x 32 dots	32 Char. x 24 rows							
Memory	Application		8MB FEPROM *3						
,	Data Backup		320KB SRAM *4						
Touch	Туре	Resistive F	( 0)						
Panel	Resolution	1024 3							
Control	Variable Area	64 KB SRAM (uses							
Memory	Program Area	132 KB FLA							
	Serial Interface (COM1)	Asynchronous Transmission: RS-232C/422/485 * 5 Data Leng Data transmission speed: 2400bps to 1	15.2kbps, Connector: D-Sub 9pin male						
	Serial Interface (COM2)		Asynchronous Transmission: RS-422/485 Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: none, Odd or Even, Data transmission speed: 2400bps to 115.2kbps (MPI: 187.5kbps *6), Connector: D-Sub 9pin female						
	Ethernet Interface	IEEE802.3u, 10BASE-T/100BASE-	TX, modular jack connector (RJ-45)						
	Expansion Unit Interface	Expansion Unit Interfa	ace (external/internal)						
Interface	USB Interface	USB1.1 Host I/F, USB	TYPE-A connector x 2						
	CF Card Interface	CF Card Slot	(TYPE-II) x 1						
	Video Input Interface	NTSC: 59.9Hz, PAL: 50Hz, SEC	AM: 50Hz, Connector: RCA 75 Ω						
	Sound Input Interface	MIC input/LINE input (Change with	S/W), Connector: MINI-JACK Φ3.5						
	Sound Output Interface		cy: 1kHz) Connector: Two piece type terminal block						
	AUX Input/ Output Interface	[AUX Output] Alarm Output, RUN Output, Buzzer Ou [AUX Input] Remote Reset Input, Input Voltage: DC24V, Input Current: 6mA,							

GENERAL SPECIFICATION	AGP3750-T1-AF	AGP3750-T1-D24
Rated Voltage	AC100V to AC240V	DC24V
Rated Voltage Range	AC85V to AC265V	DC19.2V to DC28.8V
Allowable Voltage Drop	Shorter than 1cycle (Instantaneous power failure time: 1s or less)	10ms or less
Power Consumption	AC100V 1.1A or less AC240V 0.7A or less	50W or less
Voltage Endurance	AC1500V 20mA for 1 minute (between charging and FG terminals)	AC1000V 20mA for 1 minute (between charging and FG terminals)
Insulation Resistance	10MΩ or higher at DC500V (between	veen charging and FG terminals)
Operating Temperature	0 °C to +	50 °C *7
Storage Temperature	−20 °C to	9+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)
Pollution Degree	Pollution	Degree 2
Corrosive Gasses	Free of corro	sive gasses
Atmospheric Endurance (GP Operation Altitude)	800hPa to 1114hPa (2	2000 meters or lower)
Vibration Resistance	IEC61131-2(JIS B 3502) compliant 5Hz to 9Hz Single amplitude 3.5mm 9Hz	to 150Hz Fixed acceleration 9.8m/s <sup>2</sup> X,Y,Z directions for 10 times (100min.)
Noise Immunity (via noise simulator)	Noise Voltage: 1500Vp-p Pulse Duration: 1 $\mu$ s Arise Time: 1ns	Noise Voltage: 1000Vp-p Pulse Duration: 1 $\mu$ s Arise Time: 1ns
Electrostatic Discharge Immunity	6kV (complies with E	N 61000-4-2 Level 3)
Grounding	100 Ω or less, or your count	ry's applicable standard *8
Ratings (For front panel of installed unit)	Equivalent to IP65f NEM	MA #250 TYPE 4X/13 *9
External Dimensions	W395mm[15.55in.] x H294mr	m[11.57in.] x D60mm[2.36in.]
Weight	5.6kg (12.3	Blb) or less
Cooling Method	Natural air	circulation

- \*1 Changing the Colors setting to "65,536 colors" will disable the blinking feature on all screens in your project. If you wish to use the blinking feature, select "16,384 colors".
  \*2 Font Sizes can be set up by software.

- Font Sizes can be set up by software.
   User area.
   A Lithium battery's lifetime is:
   Uyears when the battery's ambient temperature is 40 °C or less.
   19 years when the battery's ambient temperature is 50 °C or less.
   5 years when the battery's ambient temperature is 60 °C or less.
   When used for back up: Approximately 60 days, with a fully charged battery. Approximately 6 days, with a half-charged battery.

- SIEMENS SIMATIC S7-200/300/400 series (MPI port only).
  Please contact your Pro-face sales representative for supported models and other details.
  To perating temperature refers to temperature inside mounting enclosure.
  Grounding requirements differ from country to country. Be sure to confirm your work environment requirements prior to installation. For more information, please contact your local Pro-face office.
  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.



## 12.1-inch Specifications

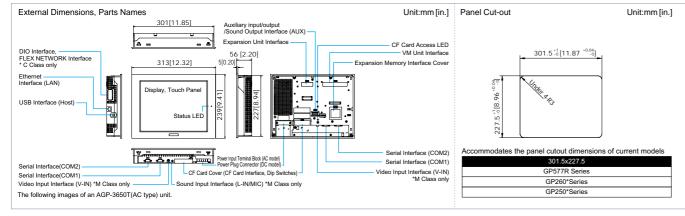
		AGP3650-T1-AF	AGP3600-T1-AF-D81K	AGP3600-T1-D24-D81K	AGP3600-T1-AF-D81C	AGP3600-T1-D24-D81C			
FUNCTIO	NAL SPECIFICATION	M Class		C CI					
		Wi Class	DIO(	Sink)	DIO(S	Source)			
Internatio	nal Safety Standards	<b>51.</b> 1 <b>1.7</b>	<b>N</b> (	(₩,(₩,(₩)	<b>?)′!R₁′!R</b>	(A) (B) (A)			
Display Type TFT Color LCD									
Di	splay Colors		65,536 Cd	olors (no blink) / 16,384 Colors (3-spee	d blink) *1				
Backlight CCFL (Service life: 50,000 hrs. at 25 °C and 24 hr. Operation)									
Disp	pay Resolution			800 x 600 pixels					
	ive Display Area			248.0mm[9.76in.] x 186.5mm[7.34in.]					
	htness Control		8 lev	els of adjustment available via touch p	anel				
	rast Adjustment								
Lai	nguage Fonts	Japanese: 6962 (JIS S	tandards 1&2)(including 607 non-kan	ji characters), ANK: 158 (Korean fonts,	, Simplified and traditional Chinese for	onts are downloadable.)			
Text	Character Sizes	Standar		32 dot fonts, Stroke font: 6 to 127 dot		dot fonts)			
Composition			Standard font: Width can be	expanded up to 8 times. Height can be	e expanded up to 8 times *2				
	8 x 8 dots			100 Char. x 75 rows					
Text	8 x 16dots								
·	16 x 16 dots		50 Char. x 37 rows	) Char. x 37 rows					
	32 x 32 dots	25 Char. x 18 rows 8MB FEPROM *3							
Memory	Application								
incinor y	Data Backup	320KB SRAM *4							
Touch	Type	Resistive Film (analog)							
Panel	Resolution		1024 x 1024						
Control	Variable Area			64 KB SRAM (uses lithium battery) *4					
Memory	Program Area			132 KB FLASH EPROM					
	Serial Interface			hronous Transmission: RS-232C/422/4					
	(COM1)			e, Odd or Even, Data transmission spe					
	Serial Interface (COM2)	· · · · · · · · · · · · · · · · · · ·		485 Data Length: 7 or 8 bits, Stop Bit: 1 bps to 115.2kbps (MPI: 187.5kbps *6),		٦,			
	Ethernet Interface			BASE-T/100BASE-TX. modular iack co					
	Expansion Unit Interface			coansion Unit Interface (external/interna					
	USB Interface			USB1.1. USB TYPE-A connector x 2	aij				
	VM Unit Interface			VM Unit Interface x 1					
	CF Card Interface			CF Card Slot (TYPE-II) x 1					
Interface	Video	NTSC: 59.9Hz. PAL: 50Hz.SECAM: 50Hz		Or Gard Glot (TTT E-II) X T					
	Input Interface	Connector: RCA 75 Ω		_	<del>_</del>				
	Sound	MIC input/LINE input (Change with S/W),							
	Input Interface	Connector: MINI-JACK Φ3.5			_				
	Sound Output Interface		Speaker Output 70mW (Rated L	.oad: 8Ω, Frequency: 1kHz), Connecto	r: Two piece type terminal block	<u> </u>			
	AUX Input/			Output, Buzzer Output, Rated Voltage					
	Output Interface	[AUX Input] Remote		nput Current: 6mA, Operating Voltage:	, , , , , , , , , , , , , , , , , , , ,				
	DIO Interface		Inputs Method: Sink/ Source type 6 input	uts, Outputs Method: Sink type 2 outputs	Inputs Method: Sink/ Source type 6 input	ts, Outputs Method: Source type 2 outputs			
	FLEX NETWORK Interface								

GENERAL SPECIFICATION	AGP3650-T1-AF	AGP3600-T1-AF-D81K	AGP3600-T1-D24-D81K	AGP3600-T1-AF-D81C	AGP3600-T1-D24-D81C			
Rated Voltage	AC100V to	AC240V	DC24V	AC100V to AC240V	DC24V			
Rated Voltage Range	AC85V to	AC265V	DC19.2V to DC28.8V	AC85V to AC265V	DC19.2V to DC28.8V			
Allowable Voltage Drop	Shorter that (Instantaneous power that		10ms or less	Shorter than 1cycle (Instantaneous power failure time: 1s or less)	10ms or less			
Power Consumption	AC100V 0. AC240V 0.		50W or less	AC100V 0.9A or less AC240V 0.45A or less	50W or less			
Voltage Endurance	AC1500V 20m. (between charging		AC1000V 20mA for 1 minute (between charging and FG terminals)	AC1500V 20mA for 1 minute (between charging and FG terminals)	AC1000V 20mA for 1 minute (between charging and FG terminals)			
Insulation Resistance		10MΩ or high	er at DC500V (between charging and	FG terminals)				
Operating Temperature			0 °C to +50 °C *8					
Storage Temperature			-20 °C to +60 °C					
Humidity	10%RH to 90%RH (Non-condensing, wet bulb temperature: 39 ℃ or less)							
Storage Humidity		10%RH to 90%RH (Non-condensing, wet bulb temperature: 39 ℃ or less)						
Pollution Degree			Pollution Degree 2					
Corrosive Gasses			Free of corrosive gasses					
Atmospheric Endurance (GP Operation Altitude)		80	0hPa to 1114hPa (2000 meters or low	er)				
Vibration Resistance	IEC61131-2 (JIS B 3	3502) compliant 5Hz to 9Hz Single an	plitude 3.5mm 9Hz to 150Hz Fixed a	cceleration 9.8m/s <sup>2</sup> X,Y,Z directions for	r 10 times (100min.)			
Noise Immunity	Noise Voltage: 1500Vp-p	Noise Voltage: 1500Vp-p	Noise Voltage: 1000Vp-p	Noise Voltage: 1500Vp-p	Noise Voltage: 1000Vp-p			
(via noise simulator)	Pulse Duration: 1 µs Arise Time: 1ns			Pulse Duration: 1 $\mu$ s Arise Time: 1ns	Pulse Duration: 1 µs Arise Time: 1ns			
Electrostatic Discharge Immunity		64	V (complies with EN 61000-4-2 Level	3)				
Grounding	100Ω or less, or your country's applicable standard *9							
Ratings (For front panel of installed unit)	Equivalent to IP65f NEMA #250 TYPE 4X/13 *10							
External Dimensions		W313mm	[12.31in.] x H239mm[9.41in.] x D56m	m[2.20in.]				
Weight	3.0kg (6.6lb) or less		3.2kg (7.0	llb) or less				
Cooling Method		·	Natural air circulation					

- Changing the Colors setting to "65,536 colors" will disable the blinking feature on all screens in your project. If you wish to use the blinking feature, select "16,384 colors".
   Font Sizes can be set up by software.
   User area.

- 4 A Lithium battery's lifetime is:

- A Lunium batury's inieume 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 60 °C or less.
  When used for back up: Approximately 60 days, with a fully charged battery. Approximately 6 days, with a half-charged battery.



AGP3600-T1-AF-FN1M AGP3600-T1-D24-FN1M AGP3600-T1-AF AGP3600-T1-D24 FUNCTIONAL SPECIFICATION **9) 'R**; **'R 3) 'IR**, '**IR** ternational Safety Standard () (U) (D) (E) (I) (II) (II) (II) (II) TFT Color LCD Display Type 65,536 Colors (no blink) / 16,384 Colors (3-speed blink) \*1 Display Colors Backlight CCFL (Service life: 50,000 hrs. at 25 °C and 24 hr. Operation) 800 x 600 pixels Dispay Resolution 248.0mm[9.76in.] x 186.5mm[7.34in.] Effective Display Area **Brightness Control** 8 levels of adjustment available via touch panel Language Fonts

Character Sizes Text
Compositi Japanese: 6962 (JIS Standards 1&2)(including 607 non-kanji characters), ANK: 158 (Korean fonts, Simplified and traditional Chinese fonts are downloadable.) Standard font: 8 x 8, 8 x 16, 16 x 16 and 32 x 32 dot fonts, Stroke font: 6 to 127 dot fonts (Full-size character: 12 to 254 dot fonts) Standard font: Width can be expanded up to 8 times. Height can be expanded up to 8 times \*2 Font Sizes 8 x 8 dots 8 x 16dots 100 Char x 75 rows 100 Char. x 37 rows Text 50 Char. x 37 rows 16 x 16 dots 25 Char. x 18 rows 32 x 32 dots 8MB FEPROM \* Application 320KB SRAM \*4 Data Backup Type Resolution Touch Panel Resistive Film (analo 1024 x 1024 64 KB SRAM (uses lithium battery) \* Variable Area Contro Program Area
Serial Interface
(COM1)
Serial Interface
(COM2) 132 KB FLASH EPROM Asynchronous Transmission: RS-232C/422/485 \*5, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: none, Odd or Even, Data transmission speed: 2400bps to 115.2kbps, Connector: D-Sub 9pin male

Asynchronous Transmission: RS-422/485 Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: none, Odd or Even, Data transmission speed: 2400bps to 115.2kbps (MPI: 187.5kbps \*6), Connector: D-Sub 9pin female IEEE802.3u, 10BASE-T/100BASE-TX, modular jack connector (RJ-45) Ethernet Interface Expansion Unit Interface (external/internal)
USB1.1, USB TYPE-A connector x 2 xpansion Unit Interface USB Interface VM Unit Interface x 1 VM Unit Interface CF Card Interface CF Card Slot (TYPE-II) x 1 Video Input Interface Sound Input Interface Speaker Output 70mW (Rated Load: 8Ω, Frequency: 1kHz), Connector: Two piece type terminal block nd Output Interface AUX Input/ Output Interface DIO Interface [AUX Output] Alarm Output, RUN Output, Buzzer Output, Rated Voltage: DC24V, Rated Current: 50mA, [AUX Input] Remote Reset Input, Input Voltage: DC24V, Input Current: 6mA, Operating Voltage: (When ON) DC9V or more, (When OFF) DC2.5V or les 63 stations max., Bit variable input: 256 points, Bit variable output: 256 points, FLEX NETWORK Integer variable input: 64 points, Integer variable output: 64 \*

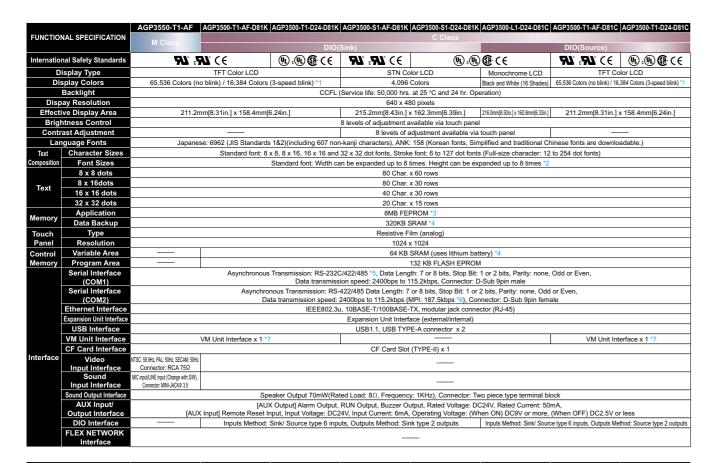
AGP3600-T1-AF-FN1M	AGP3600-T1-D24-FN1M	AGP3600-T1-AF	AGP3600-T1-D24	GENERAL SPECIFICATION
AC100V to AC240V	DC24V	AC100V to AC240V	DC24V	Rated Voltage
AC85V to AC265V	DC19.2V to DC28.8V	AC85V to AC265V	DC19.2V to DC28.8V	Rated Voltage Range
Shorter than 1cycle Instantaneous power failure time: 1s or less)			Allowable Voltage Drop	
AC100V 0.9A or less AC240V 0.45A or less	50W or less	AC100V 0.9A or less AC240V 0.45A or less	50W or less	Power Consumption
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)	AC1000V 20mA for 1 minute (between charging and FG terminals)	Voltage Endurance
	10MΩ or higher at DC500V (bet	tween charging and FG terminals)		Insulation Resistance
	Operating Temperature			
	−20 °C	to +60 °C		Storage Temperature
	10%RH to 90%RH (Non-condensing	g, wet bulb temperature: 39 °C or less)		Humidity
	10%RH to 90%RH (Non-condensing	g, wet bulb temperature: 39 °C or less)		Storage Humidity
	Pollution	Degree 2		Pollution Degree
	Free of corr	rosive gasses		Corrosive Gasses
	800hPa to 1114hPa	(2000 meters or lower)		Atmospheric Endurance (GP Operation Altitude
IEC61131-2 (JIS B 3502) con	npliant 5Hz to 9Hz Single amplitude 3.5mm 9H	Iz to 150Hz Fixed acceleration 9.8m/s <sup>2</sup> X,Y,Z direction	ctions for 10 times (100min.)	Vibration Resistance
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	Noise Voltage: 1000Vp-p Pulse Duration: 1 µs Arise Time: 1ns	Noise Immunity (via noise simulator)
	6kV (complies with E	EN 61000-4-2 Level 3)	•	Electrostatic Discharge Immuni
	100 Ω or less, or your cour	ntry's applicable standard *9		Grounding
	Equivalent to IP65f NEI	MA #250 TYPE 4X/13 *10		Ratings (For front panel of installed un
	W313mm[12.31in.] x H239r	mm[9.41in.] x D56mm[2.20in.]		External Dimensions
3.2kg (7.0	lb) or less	3.0kg (6.6l	b) or less	Weight
	Natural ai	r circulation		Cooling Method

- 5 RS-232C and RS-422/485 are software switchable.
  6 SIEMENS SIMATIC S7-200/300/400 series (MPI port only).
  Please contact your Pro-face sales representative for supported models and other details.
  7 Depending on type of units used.
- Cable Attached Dimensions Unit:mm [in.] The DC type unit has the Depending on the type of connection cable used the dimensions shown above will change. The dimensions given here are representative values and are intended for reference only.

- 8 Operating temperature refers to temperature inside mounting enclosure.
  9 Grounding requirements differ from country to country. Be sure to confirm your work environment requirements prior to installation. For more information, please contact your local Pro-face office.
  10 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.

**Specifications** 

## 10.4-inch Specifications

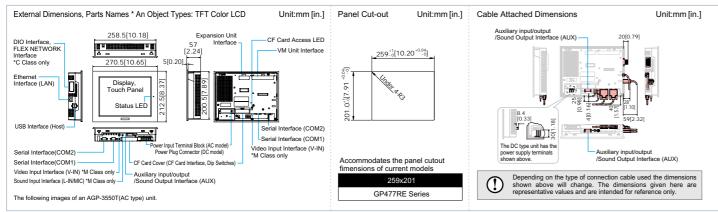


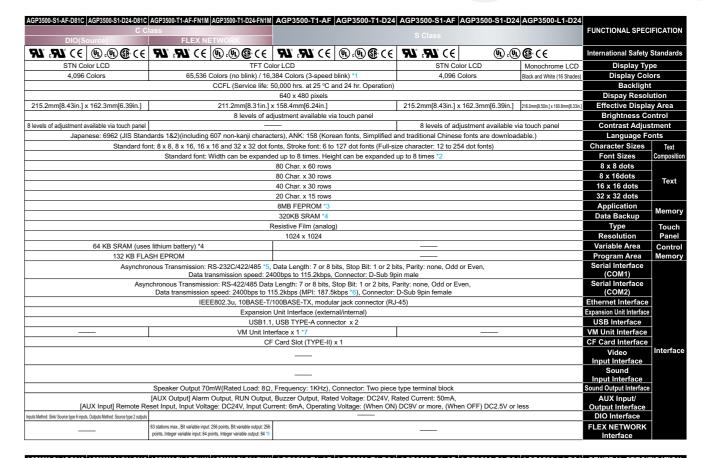
GENERAL SPECIFICATION	AGP3550-T1-AF	AGP3500-T1-AF-D81K	AGP3500-T1-D24-D81K	AGP3500-S1-AF-D81K	AGP3500-S1-D24-D81K   AGP3500-L1-D24-D81C	AGP3500-T1-AF-D81C	AGP3500-T1-D24-D81C	
Rated Voltage	AC100V to AC240V		DC24V	AC100V to AC240V	DC24V	AC100V to AC240V	DC24V	
Rated Voltage Range	AC85V to AC265V		DC19.2V to DC28.8V	AC85V to AC265V	DC19.2V to DC28.8V	AC85V to AC265V	DC19.2V to DC28.8V	
Allowable Voltage Drop		nan 1cycle failure time: 1s or less)	10ms or less	Shorter than 1 cycle (Instantaneous power failure time: 1s or less)	10ms or less	Shorter than 1 cycle (Instantaneous power failure time: 1s or less)	10ms or less	
Power Consumption		0.9A or less 0.45A or less	50W or less	AC100V 0.9A or less AC240V 0.45A or less	50W or less	AC100V 0.9A or less AC240V 0.45A or less	50W or less	
Voltage Endurance		nA for 1 minute g and FG terminals)	AC1000V 20mA for 1 minute (between charging and FG terminals)	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)	AC1000V 20mA for 1 minute (between charging and FG terminals)	
Insulation Resistance			10MΩ or	higher at DC500V (betv	veen charging and FG terminals)			
Operating Temperature				0 °C to +	50 °C *9			
Storage Temperature				−20 °C to	0 +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)			
Pollution Degree				Pollution	Degree 2			
Corrosive Gasses				Free of corro	osive gasses			
Atmospheric Endurance (GP Operation Altitude)				800hPa to 1114hPa (2	2000 meters or lower)			
Vibration Resistance	IEC	61131-2(JIS B 3502) coi	mpliant 5Hz to 9Hz Sing	le amplitude 3.5mm 9Hz	to 150Hz Fixed acceleration 9.8m/s2 X,Y,Z dire	ections for 10 times (100	min.)	
Noise Immunity (via noise simulator)		je: 1500Vp-p 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	Noise Voltage: 1000Vp-p Pulse Duration: 1 µs Arise Time: 1ns	Noise Voltage: 1500Vp-p Pulse Duration: 1 µs Arise Time: 1ns	Noise Voltage: 1000Vp-p Pulse Duration: 1 µs Arise Time: 1ns	
<b>Electrostatic Discharge Immunity</b>				6kV (complies with E	N 61000-4-2 Level 3)			
Grounding			100	Ωor less, or your count	ry's applicable standard *10			
Ratings (For front panel of installed unit)	Equivalent to IP65f NEMA #250 TYPE 4X/13 *11							
External Dimensions	W270.5mm[10.65	in.] x H212.5mm[8.37in.	12.5mm[8.37in.] x D57mm[2.24in.] W313mm[12.32in.] x H239mm[9.41in.] x D56mm[2.20in.] W270.5mm[10.65in.] x H212.5mm[8.37in.] x D57mm[2.20in.]			mm[8.37in.] x D57mm[2.24in.]		
Weight	2.5kg (5.5lb) or less	2.7kg (5.9	9lb) or less	3.2kg (7.0lb) or less 2.7kg (5.9lb) or less			lb) or less	
Cooling Method				Natural air	circulation	•		
*1 Changing the Colors setting to "6	Changing the Colors acting to "CE FOC colors" will disable the blinking feature on all account in your							

- "1 Changing the Colors setting to "65,536 colors" will disable the blinking feature on all screens in your project. If you wish to use the blinking feature, select "16,384 colors".

  22 Fort Sizes can be set up by software.

- \*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 60 °C or less. When used for back up: Approximately 60 days, with a fully charged battery. pproximately 6 days, with a half-charged battery.





AGP3500-S1-AF-D81C	AGP3500-S1-D24-D81C	AGP3500-T1-AF-FN1M	AGP3500-T1-D24-FN1M	AGP3500-T1-AF	AGP3500-T1-D24	AGP3500-S1-AF	AGP3500-S1-D24 AGP3500-L1-D24	GENERAL SPECIFICATION
AC100V to AC240V	DC24V	Rated Voltage						
AC85V to AC265V	DC19.2V to DC28.8V	Rated Voltage Range						
Shorter than 1 cycle (Instantaneous power failure time: 1s or less)	10ms or less	Shorter than 1 cycle (Instantaneous power failure time: 1s or less)	10ms or less	Shorter than 1 cycle (Instartaneous power failure time: 1s or less)	10ms or less	Shorter than 1 cycle (Instantaneous power failure time: 1s or less)	10ms or less	Allowable Voltage Drop
AC100V 0.9A or less, AC240V 0.45A or less	50W or less	AC100V 0.9A or less AC240V 0.45A or less	50W or less	AC100V 0.9A or less, AC240V 0.45A or less	50W or less	AC100V 0.9A or less AC240V 0.45A or less	50W or less	Power Consumption
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)	AC1000V 20mA for 1 minute (between charging and FG terminals)	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)	AC1000V 20mA for 1 minute (between charging and FG terminals)	Voltage Endurance
		1	0MΩ or higher at DC	500V (between charg	ging and FG terminals	s)		Insulation Resistance
				0 °C to +50 °C *9				Operating Temperature
				-20 °C to +60 °C				Storage Temperature
		10%F	RH to 90%RH (Non-c	ondensing, wet bulb t	temperature: 39 °C or	r less)		Humidity
		10%F	RH to 90%RH (Non-c	ondensing, wet bulb t	temperature: 39 °C or	r less)		Storage Humidity
				Pollution Degree 2				Pollution Degree
			Fi	ree of corrosive gass	es			Corrosive Gasses
			800hPa to	1114hPa (2000 mete	rs or lower)			Atmospheric Endurance (GP Operation Altitude)
IE	C61131-2(JIS B 3502	2) compliant 5Hz to 9I	Hz Single amplitude 3	3.5mm 9Hz to 150Hz	Fixed acceleration 9.	8m/s <sup>2</sup> X,Y,Z directions	s for 10 times (100min.)	Vibration Resistance
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	Noise Voltage: 1000Vp-p Pulse Duration: 1 µs Arise Time: 1ns	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	Noise Voltage: 1000Vp-p Pulse Duration: 1 µs Arise Time: 1ns	Noise Immunity (via noise simulator)
			6kV (comp	lies with EN 61000-4	-2 Level 3)			Electrostatic Discharge Immunity
			100 Ωor less, or	your country's applica	able standard *10			Grounding
	Equivalent to IP65f NEMA #250 TYPE 4X/13 *11							Ratings (For front panel of installed unit)
W313mm[12.32in.] x H239m	nm[9.41in.] x D56mm[2.20in.]	W270.5n	nm[10.65in.] x H212.5	imm[8.37in.] x D57mi	m[2.24in.]	W313mm[12.31in	.] x H239mm[9.41in.] x D56mm[2.20in.]	External Dimensions
3.2kg (7.0	lb) or less	2.7kg (5.9	lb) or less	2.5kg (5.5	ilb) or less		3.0kg (6.6lb) or less	Weight
	•			Natural air circulation	1			Cooling Method
	422/485 are software						where the temperature becomes or exceeds 40 °C	

About 10.4-inch models

Replacing the GP2500 Series with the

GP-3500T requires an optional Panel Cutout Adapter (CA4-ATM10-01).

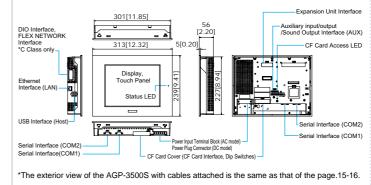
with TFT color LCD.

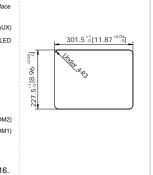
- 6 SIEMENS SIMATIC S7-200/300/400 series (MPI port only).
- Please contact your Pro-face sales representative for supported models and other details.

  7 The Expansion Unit Interface and VM Unit Interface cannot be used simultaneously. 8 Depending on type of units used
- screen contrast level may decrease from its original level of brightness. Operating temperature refers to temperature inside mounting enclosur
  10 Grounding requirements differ from country to country. Be sure to confirm your work environment requirements prior to
  installation. For more information, please contact your local Pro-face office.

  11 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.







**Specifications** 

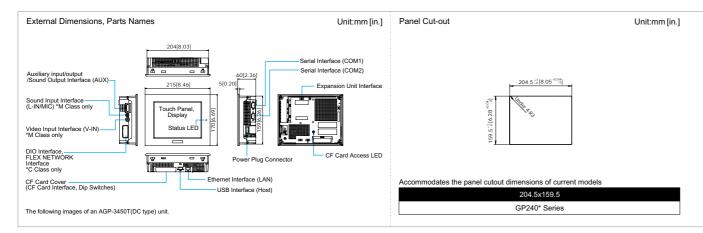
## 7.5-inch Specifications

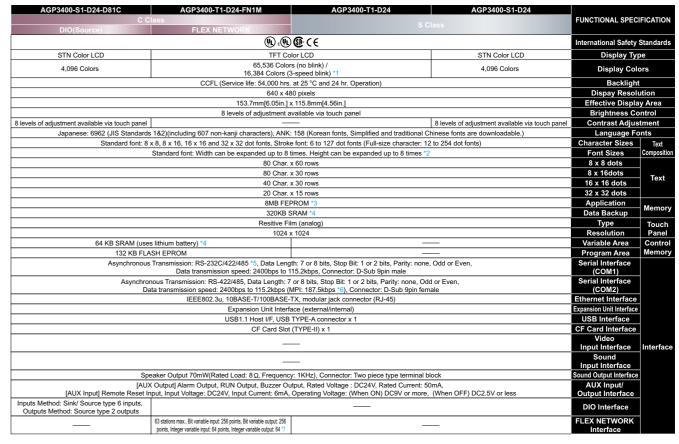
		AGP3450-T1-D24	AGP3400-T1-D24-D81K	AGP3400-S1-D24-D81K	AGP3400-T1-D24-D81C				
FUNCTIONAL SPECIFICATION		M Class		C Class					
		W Class	DIO (		DIO(Source)				
Internation	nal Safety Standards		(b) (b) (€						
D	isplay Type	TFT Co	lor LCD	STN Color LCD	TFT Color LCD				
Dis	splay Colors	65,536 Color 16,384 Colors (3		4,096 Colors	65,536 Colors (no blink) / 16,384 Colors (3-speed blink) *1				
	Backlight		CCFL (Service life: 54,000 hrs.	at 25 °C and 24 hr. Operation)					
	ay Resolution		640 x 48	30 pixels					
	ve Display Area		153.7mm[6.05in.]						
	ntness Control		8 levels of adjustment a						
	ast Adjustment	<del>_</del>	_	8 levels of adjustment available via touch panel	<del></del>				
Lar	guage Fonts		1&2)(including 607 non-kanji characters), ANK						
Text	Character Sizes	Standard font: 8 >	x 8, 8 x 16, 16 x 16 and 32 x 32 dot fonts, Stroke	e font: 6 to 127 dot fonts (Full-size character: 12	2 to 254 dot fonts)				
Composition	Font Sizes		Standard font: Width can be expanded up to 8	times. Height can be expanded up to 8 times *2	!				
	8 x 8 dots		80 Char. :	x 60 rows					
Text	8 x 16dots	80 Char. x 30 rows							
IEXL	16 x 16 dots	40 Char. x 30 rows							
	32 x 32 dots	20 Char. x 15 rows							
	Application		8MB FEF	PROM *3					
Memory	Data Backup		320KB \$	SRAM *4					
Touch	Туре		Resitive Fil	m (analog)					
Panel	Resolution		1024 >	1024					
Control	Variable Area			64 KB SRAM (uses lithium battery) *4					
Memory	Program Area			132 KB FLASH EPROM					
	Serial Interface (COM1)	Asynchronous	Transmission: RS-232C/422/485 *5, Data Leng Data transmission speed: 2400bps to 1		, Odd or Even,				
	Serial Interface (COM2)	Asynchronous Transmission: RS-422/485, Data Length: 7 or 8 bits, Stop Bit: 1 or 2 bits, Parity: none, Odd or Even, Data transmission speed: 2400bps to 115.2kbps (MPI: 187.5kbps "6), Connector: D-Sub 9pin female							
	Ethernet Interface	IEEE802.3u, 10BASE-T/100BASE-TX, modular jack connector (RJ-45)							
	Expansion Unit Interface	Expansion Unit Interface (external/internal)							
	USB Interface	USB1.1 Host I/F, USB TYPE-A connector x 1							
	CF Card Interface	CF Card Slot (TYPE-II) x 1							
Interface	Video Input Interface	NTSC: 59.9Hz, PAL: 50Hz, SECAM: 50Hz, Connector: RCA 75 Ω		<u> </u>					
	Sound	MIC input/LINE input (Change with S/W),							
	Input Interface	Connector: MINI-JACK φ3.5		<del></del>					
	Sound Output Interface		aker Output 70mW(Rated Load: 8 Ω, Frequence						
	AUX Input/ Output Interface		Output] Alarm Output, RUN Output, Buzzer Ou put, Input Voltage: DC24V, Input Current: 6mA,						
	DIO Interface	_	Inputs Method: Sink/ Outputs Method: S	Source type 6 inputs,	Inputs Method: Sink/ Source type 6 inputs, Outputs Method: Source type 2 outputs				
	FLEX NETWORK Interface		_	_					

GENERAL SPECIFICATION	AGP3450-T1-D24	AGP3400-T1-D24-D81K	AGP3400-S1-D24-D81K	AGP3400-T1-D24-D81C					
Rated Voltage	DC24V								
Rated Voltage Range		DC19.2V	to DC28.8V						
Allowable Voltage Drop		10ms or less							
Power Consumption	28W or less								
Voltage Endurance		AC1000V 20mA for 1 minute (between charging and FG terminals)							
Insulation Resistance		10MΩ or higher at DC500V (be	tween charging and FG terminals)						
Operating Temperature		0 °C to	+50 °C *8						
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)							
Pollution Degree		Pollution Degree 2							
Corrosive Gasses		Free of corrosive gasses							
Atmospheric Endurance (GP Operation Altitude)		800hPa to 1114hPa (2000 meters or lower)							
Vibration Resistance	IEC61131-2(JIS B 3502) con	IEC61131-2(JIS B 3502) compliant 5Hz to 9Hz Single amplitude 3.5mm 9Hz to 150Hz Fixed acceleration 9.8m/s <sup>2</sup> X,Y,Z directions for 10 times (100min.)							
Noise Immunity (via noise simulator)		Noise Voltage: 1000Vp-p Puls	e Duration: 1μs Arise Time : 1ns						
<b>Electrostatic Discharge Immunity</b>		6kV (complies with	EN 61000-4-2 Level 3)						
Grounding		100 Ω or less, or your cou	ntry's applicable standard *9						
Ratings (For front panel of installed unit)		Equivalent to IP65f NE	MA #250 TYPE 4X/13 *10						
External Dimensions	·	W215mm[8.46in.] x H170r	nm[6.69in.] x D60mm[2.36in.]	·					
Weight	1.8kg (4.0lb) or less 2.0kg (4.4lb) or less								
Cooling Method	Natural air circulation								

- \*1 Changing the Colors setting to "65,536 colors" will disable the blinking feature on all screens in your project. If you wish to use the blinking feature, select "16,384 colors". 
  \*2 Font Sizes can be set up by software.
  \*3 User area.

- \*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 60 °C or less.
- When used for back up: Approximately 60 days, with a fully charged battery. Approximately 6 days, with a half-charged battery



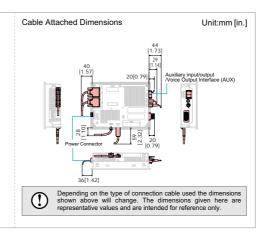


AGP3400-S1-D24-D81C	AGP3400-T1-D24-FN1M	AGP3400-T1-D24	AGP3400-S1-D24	GENERAL SPECIFICATION
·	DC2	4V	•	Rated Voltage
	DC19.2V to	DC28.8V		Rated Voltage Range
	10ms o	or less		Allowable Voltage Drop
	28W o	r less		Power Consumption
	AC1000V 20mA for 1 minute (betw	veen charging and FG terminals)		Voltage Endurance
	10MΩ or higher at DC500V (betw	een charging and FG terminals)		Insulation Resistance
	0 °C to +5	50 °C *8		Operating Temperature
	−20 °C to	0°00+ c		Storage Temperature
	10%RH to 90%RH (Non-condensing,	wet bulb temperature: 39 °C or less)		Humidity
	10%RH to 90%RH (Non-condensing,	wet bulb temperature: 39 °C or less)		Storage Humidity
	Pollution [	Degree 2		Pollution Degree
	Free of corro	sive gasses		Corrosive Gasses
	800hPa to 1114hPa (2			Atmospheric Endurance (GP Operation Altitude)
IEC61131-2(JIS B 3502) compliar	nt 5Hz to 9Hz Single amplitude 3.5mm 9Hz	to 150Hz Fixed acceleration 9.8m/s <sup>2</sup> X,Y,Z di	rections for 10 times (100min.)	Vibration Resistance
	Noise Voltage: 1000Vp-p Pulse	Duration: 1 μs Arise Time : 1ns		Noise Immunity (via noise simulator)
	6kV (complies with EN	N 61000-4-2 Level 3)		Electrostatic Discharge Immunity
	100 Ω or less, or your country	ry's applicable standard *9		Grounding
	Equivalent to IP65f NEM	A #250 TYPE 4X/13 *10		Ratings (For front panel of installed unit)
	W215mm[8.46in.] x H170mm	n[6.69in.] x D60mm[2.36in.]		External Dimensions
2.0kg (4.4lb) or		0.1	.0lb) or less	Weight
	Natural air o	circulation		Cooling Method

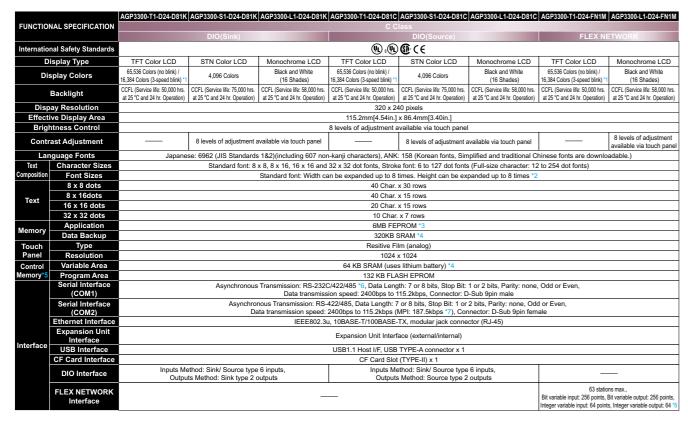
- \*5 RS-232C and RS-422/485 are software switchable.
   \*6 SIEMENS SIMATIC S7-200/300/400 series (MPI port only).
   Please contact your Pro-face sales representative for supported models and other details.
   \*7 Depending on type of units used.

\*8 When using STN Color LCD models in an environment where the temperature becomes or exceeds 40 °C for an extended period of time, the screen contrast level may decrease from its original level of brightness. Operating temperature refers to temperature inside mounting enclosure.
\*9 Grounding requirements differ from country to country. Be sure to confirm your work environment requirements prior to installation. For more information, please contact your local Pro-face office.
\*10 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.

**Specifications** 



## **5.7**-inch Specifications

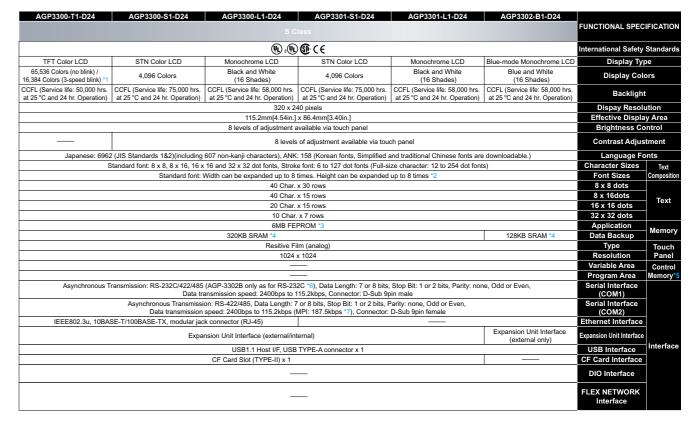


CENERAL CRECIFICATION ACROSS	0-T1-D24-D81K AGP3300-S1-D24-D81K AGP3300-L1-D24-D81K AGP3300-T1-D24-D81C AGP3300-S1-D24-D81C AGP3300-L1-D24-D81C AGP3300-T1-D24-D81C AGP300-T1-D24-D81C AGP300-T1-D24-D81C AGP300-T1-D24-D81C AGP300-T1-D24-D
Rated Voltage	DC24V
Rated Voltage Range	DC19.2V to DC28.8V
Allowable Voltage Drop	5ms or less
Power Consumption	26W or less
Voltage Endurance	AC1000V 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 *9
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)
Pollution Degree	Pollution Degree 2
Corrosive Gasses	Free of corrosive gasses
nospheric Endurance (GP Operation Altitude)	800hPa to 1114hPa (2000 meters or lower)
Vibration Resistance	IEC61131-2 (JIS B 3502) compliant 5Hz to 9Hz Single amplitude 3.5mm 9Hz to 150Hz Fixed acceleration 9.8m/s <sup>2</sup> X,Y,Z directions for 10 times (100min.)
oise Immunity (via noise simulator)	Noise Voltage: 1000Vp-p Pulse Duration: 1 µs Arise Time: 1ns
Electrostatic Discharge Immunity	6kV(complies with EN 61000-4-2 Level 3)
Grounding	100Ω or less, or your country's applicable standard *10
tings (For front panel of installed unit)	Equivalent to IP65f NEMA #250 TYPE 4X/13 *11
External Dimensions	W167.5mm[6.59in.] x H135mm[5.31in.] x D59.5mm[2.34in.]
Weight	1.2kg (2.6lb) or less
Cooling Method	Natural air circulation

- 1 Changing the Colors setting to "65,536 colors" will disable the blinking feature on all screens in your project. If you wish to use the blinking feature, select "16,384 colors" 2 Font Sizes can be set up by software.

  3 User area.

- \*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 60 °C or less. 1.5 years when the battery's ambient temperature is 60 °C or less. When used for back up: Approximately 60 days, with a fully charged battery, Approximately 6 days, with a half-charged battery. \*5 Logic Programming is not available with AGP-3301S/AGP-3301L/AGP-3302B.



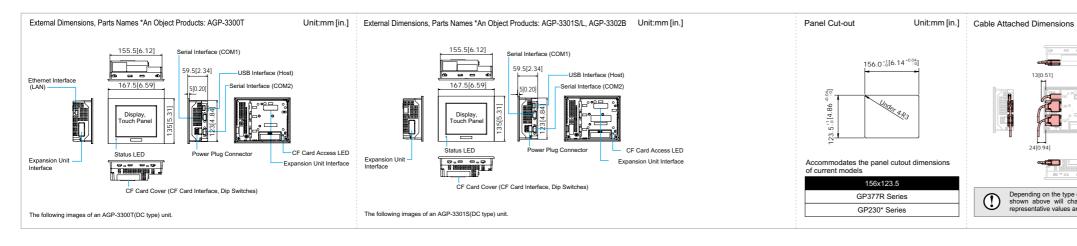
AGP3300-T1-D24 AGP3300-S1-D24 AGP3300-L1-D24 AGP3301-S1-D24 AGP3301-L1-D24	AGP3302-B1-D24	GENERAL SPECIFICATION
DC24V		Rated Voltage
DC19.2V to DC28.8V		Rated Voltage Range
5ms or less	10ms or less	Allowable Voltage Drop
26W or less	18W or less	Power Consumption
AC1000V 20mA for 1 minute (between charging and FG terminals)		Voltage Endurance
10M Ω or higher at DC500V (between charging and FG terminals)		Insulation Resistance
0 °C to +50 °C *9		Operating Temperature
-20 °C to +60 °C		Storage Temperature
10%RH to 90%RH (Non-condensing, wet bulb temperature: 39 °C or less)		Humidity
10%RH to 90%RH (Non-condensing, wet bulb temperature: 39 °C or less)		Storage Humidity
Pollution Degree 2		Pollution Degree
Free of corrosive gasses		Corrosive Gasses
800hPa to 1114hPa (2000 meters or lower)		Atmospheric Endurance (GP Operation Altitude)
IEC61131-2 (JIS B 3502) compliant 5Hz to 9Hz Single amplitude 3.5mm 9Hz to 150Hz Fixed acceleration 9.8m/s <sup>2</sup> X,Y,Z directions for 1	0 times (100min.)	Vibration Resistance
Noise Voltage: 1000Vp-p Pulse Duration: 1μs Arise Time: 1ns		Noise Immunity (via noise simulator)
6kV(complies with EN 61000-4-2 Level 3)		<b>Electrostatic Discharge Immunity</b>
100Ω or less, or your country's applicable standard *10		Grounding
Equivalent to IP65f NEMA #250 TYPE 4X/13 *11		Ratings (For front panel of installed unit)
W167.5mm[6.59in.] x H135mm[5.31in.] x D59.5mm[2.34in.]		External Dimensions
1.0kg (2.2lb) or less		Weight
Natural air circulation		Cooling Method

AGP-3301S / AGP-3301S / AGP-3302B is not available

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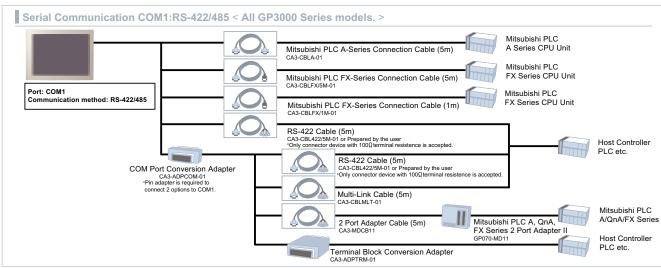
Depending on the type of connection cable used the dimensions shown above will change. The dimensions given here are representative values and are intended for reference only.

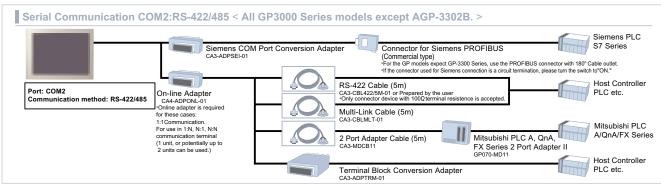
- 16 RS-232C and RS-422/485 are software switchable.
   7 SIEMENS SIMATIC S7-200/300/400 series (MPI port only).
   Please contact your Pro-face sales representative for supported models and other details
   8 Depending on type of units used.
- "9 When using AGP-3300S/AGP-3300L/AGP-3301S/AGP-3301L/AGP-3302B in an environment where the temperature becomes or exceeds 40 °C for an extended period of time, the screen contrast level may decrease from its original level of brightness. Operating temperature refers to temperature inside mounting enclosure.
   \*10 Grounding requirements differ from country to country. Be sure to confirm your work environment requirements prior to installation. For more information, please contact your local Pro-face office.
   \*11 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.

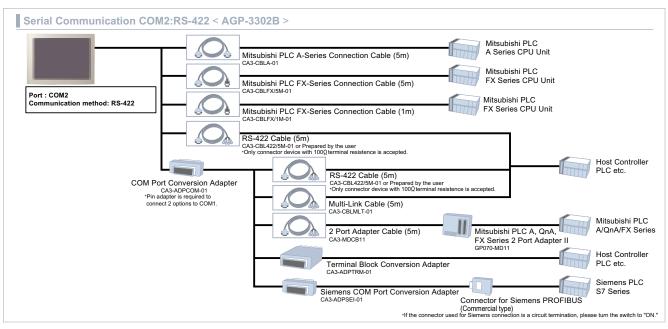


### **System Structure**

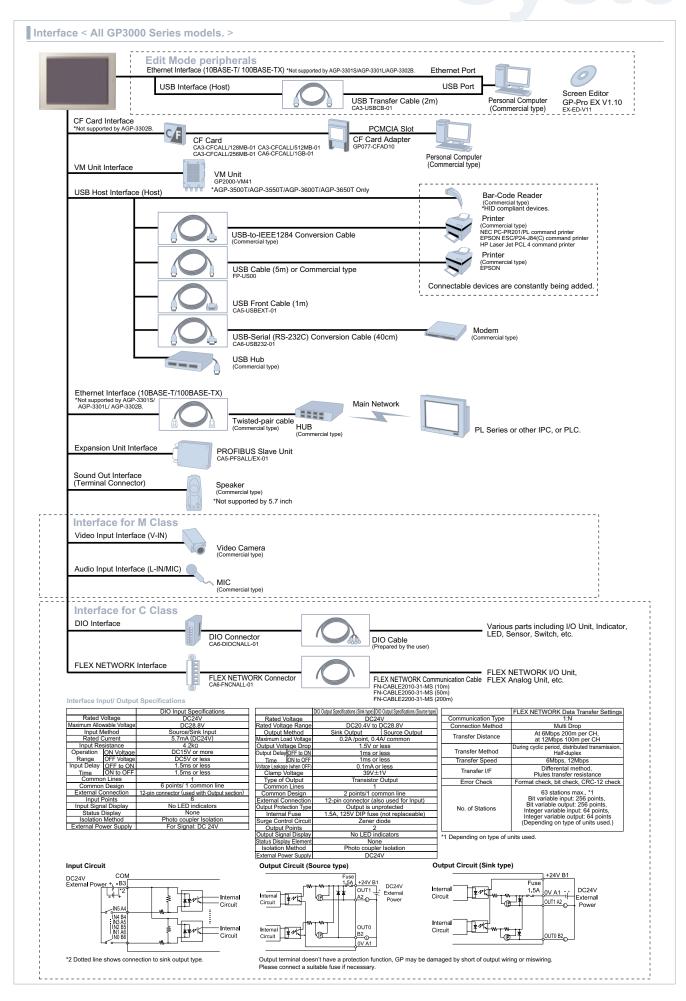








# System Structure



## **Option Line-up**



		Product Name	Model No.		Description			
	GP-P	ro EX V1.10	EX-ED-V11	New easy-to-us	es screen editor software			
- 1			EX-ED-LICENSE-V11	User license for GP-Pro EX *1				
		erver EX V1.0 Developer	EX-SDV-V10	Software that connects the GP unit with a computer via Ethernet and collects and transmits data. *2				
		erver EX V1.0 Developer license	EX-SED-LICENSE	Pro-Server EX Development Environment license *3				
10		ierver EX V1.0 Runtime license	EX-SRT-LICENSE	Pro-Server EX Runtime license *4				
	Movie	e Converter License	EX-MOVCON-LICENSE	A license of file	converter tool which is necessary for displaying general video data onto GP to PC. *5			
		USB Transfer Cable (2m)	CA3-USBCB-01	Downloads proj	ject data created with the Screen Editor via the GP unit's serial interface.			
		USB Cable (5m)	FP-US00	Connects a USB printer. (TYPE-B)				
		USB Front Cable (1m)	CA5-USBEXT-01	The cable for extending a USB Host Interface of GP.				
		RS-232C Cable (5m)	CA3-CBL232/5M-01	COM1	Connects Mitsubushi PLC A-Series (or other host controller) to the GP. (RS-232C)			
		RS-422 Cable (5m)	CA3-CBL422-01	COM2	Connects a host controller to the GP. (RS-422)			
		RS-422 Cable (5m)	CA3-CBL422/5M-01	COM1	Connects a host controller to the GP. (RS-422) <only 100ω="" accepted.="" connector="" device="" is="" resistence="" terminal="" with=""> *6,</only>			
		Mitsubishi PLC A-Series Connection Cable (5m)	CA3-CBLA-01	COM1	Connects Mitsubishi PLC A-Series and QnA-Series programming console I/F to GP. (Simultaneous use of programming console is not possible.)			
		Mitsubishi PLC Q-Series Connection Cable (5m)	CA3-CBLQ-01	COM1	Connects Mitsubishi PLC Q-Series programming console I/F to GP. (Simultaneous use of programming console is not possible.			
	Cable	Mitsubishi PLC Q-Series Link Cable (5m)	CA3-CBLLNKMQ-01	COM1	Connects Mitsubishi PLC Q-Series (or other host controller) to the GP.programming console I/F to AGP. (RS-232C)			
	ပိ	Mitsubishi PLC FX-Series Connection Cable (5m)	CA3-CBLFX/5M-01	COM1	Connects Mitsubishi PLC FX-Series programming console I/F to GP. (Simultaneous use of programming console is not possible.			
		Mitsubishi PLC FX-Series Connection Cable (1m)	CA3-CBLFX/1M-01	COM1	Connects Mitsubishi PLC FX-Series programming console I/F to GP. (Simultaneous use of programming console is not possible.			
		Omron PLC SYSMAC Link Cable (5m)	CA3-CBLSYS-01	COM1	Connects Omron PLC SYSMAC Series unit (or other host controller) to the GP. (RS-232C)			
		Multi-Link Cable (5m)	CA3-CBLMLT-01	COM2	CF Card Items (AGP-3302B is not available) connects a host controller to the GP for multi-link (n:1) communication. *6,			
		2 Port Adapter Cable (5m)	CA3-MDCB11	COM2	Connects Mitsubishi PLC to the GP using 2 port adapter II (RS-422) *6,7			
		9-pin-to-25-pin RS-a232C Conversion Cable (20cm)	CA3-CBLCBT232-01	COM1	Connects a standard RS-232C cable (GP Connector:D-sub 25-pin) to the GP.			
		9-pin-to-25-pin RS-422 Conversion Cable (20cm)	CA3-CBLCBT422-01	COM2	Connects a standard RS-422 cable (GP Connector:D-sub 25-pin) to the GP. *6,7			
		USB-Serial (RS-232C) Conversion Cable (40cm)	CA6-USB232-01		able for using a GP's USB I/F as the Serial (RS-232C) I/F. Connects a Modem only for the RS-232C communication method.			
		COM Port Conversion Adapter	CA3-ADPCOM-01	COM1	Connects optional RS-422 communication items to GP unit's COM1 port.			
		On-line Adapter	CA4-ADPONL-01	COM2	Terminal adapter for performing RS-422/RS-485 communication at COM2 port. *7			
	Ę.	Terminal Block Conversion Adapter	CA3-ADPTRM-01	COM2	Connects output from a serial interface with an RS-422 terminal block. *6,7			
	apte	Siemens COM Port Conversion Adapter  Miteubishi PLC A OnA EX Series 2 Port Adapter II	CA3-ADPSEI-01 GP070-MD11	COM2	Connects Siemens PLCs to the GP. (for RS-485 communication) *8			
	Ad	Mitsubishi PLC A, QnA, FX Series 2 Port Adapter II RS-232C Isolation Unit	CA3-ISO232-01	COM1	leous use of an GP Series unit and a Mitsubishi PLC A, QnA, FX Series peripheral device. *6,7  A unit for connecting a host controller to GP with providing isolation. (RS-232C and RS-422 are switchable).			
		RS-485 Isolation Unit	CA3-ISO232-01 CA3-ISO485-01	COM1	A unit for connecting a host controller to GP with providing isolation. (RS-232C and RS-422 are switchable).  A unit for connecting a host controller to GP with providing isolation. (RS-422 and RS-485 are switchable).			
		CF Card Adapter	GP077-CFAD10		write of CF Card data via a PC's PCMCIA slot.			
S.		or ouro mapion	CA3-CFCALL/128MB-01	128MB	The of of our data had a foot of montology			
Item			CA3-CFCALL/256MB-01	256MB				
0	CF C	ard	CA3-CFCALL/512MB-01	512MB	Inserted into the GP unit's CF Card slot. AGP-3302B is not available.			
ğ			CA6-CFCALL/1GB-01	1GB				
	PROF	FIBUS Slave Unit	CA5-PFSALL/EX-01	Expansion Unit	for connecting GP to PROFIBUS network or communicating with a PROFIBUS-DP master.			
Ī	VM U	NIT (for VM-BS)	GP2000-VM41	VM UNIT is a un	nit for capture of the video image. (This unit supports only TFT color LCD model of 10.4 inch/ 12.1inch.)			
	Pane	Cutout Adapter for GP-3500 series (TFT)	CA4-ATM10-01	Panel cutout ad	lapter for mounting 10.4 inch (TFT) in cutout of GP-2500/ GP-2600.			
	Pane	Cutout Adapter for GP-3300 Series	CA4-ATM5-01	Panel cutout ad	dapter for mounting 5.7 inch in cutout of GP-37W2B.			
		FLEX NETWORK 16-Point Input Sink Source Type I/O Unit	FN-X16TS41	16-point sink-so	ource shared I/O Unit. DC24V input signal can be connected.			
		FLEX NETWORK 32-Point Input Sink Source Type I/O Unit	FN-X32TS41	32-point sink-so	ource shared I/O Unit. DC24V input signal can be connected.			
		FLEX NETWORK 16-Point Output Sink Type I/O Unit	I-Y16SK41 16-point output sink I/O Unit.					
		FLEX NETWORK 16-Point Output Source Type I/O Unit	FN-Y16SC41	16-point output				
	FLEX NETWORK 8-Point Input Sink Source /8-Point Transistor Output Sink Type I/O Unit		FN-XY08TS41	8-point input sink-source and 8-point transistor output sink mixed I/O unit.  Both DC24V input signals and DC24V output (load current: 200mA max.) devices can be connected.				
		FLEX NETWORK 16-Point Input Sink Source	EN 20/4001/44	16-point input sink-source and 16-point transistor output sink mixed I/O unit.				
		/16-Point Transistor Output Sink Type I/O Unit	FN-XY16SK41	Both DC24V input signals and DC24V output (load current: 200mA max./1.6A/common) devices can be connected.				
		FLEX NETWORK 16-Point Input Sink Source /16-Point Transistor Output Source Type I/O Unit	FN-XY16SC41	16-point input sink-source and 16-point transistor output source mixed I/O unit.  Both DC24V input signals and DC24V output (load current: 200mA max./1.6A/common) devices can be connected.				
	* y	FLEX NETWORK 32-Point Input Sink Source /32-Point Transistor Output Sink Type I/O Unit	E11.10.000010011	32-point input sink-source and 32-point transistor output sink mixed I/O unit.				
	NETWORK		FN-XY32SKS41	Both DC24V input signals and DC24V output (load current: 200mA max./1.6A/common) devices can be connected.				
	2	FLEX NETWORK 8-Point Relay Output/1 Common Type I/O Unit	FN-Y08RL41	8-point relay output (1 common) I/O Unit. Up to AC240V (1A) load current can be connected.				
		FLEX NOTWORK 2-Channel Analog/Digital Conversion Input Unit	FN-AD02AH41	Converts 2-channel analog signals to digital signals at 12-bit resolution.				
	FLEX	FLEX NOTWORK 2-Channel Digital/Analog Conversion Output Unit	FN-DA02AH41	Converts 2-channel 12-bit digital signal to analog signal and sends output.				
	ш.	FLEX NOTWORK 4-Channel Analog/Digital Conversion Input Unit	FN-AD04AH11	Converts 4-channel analog signals to digital signals at 12-bit resolution.				
		FLEX NOTWORK 4-Channel Digital/Analog Conversion Output Unit	FN-DA04AH11	Converts 4-channel 12-bit digital signal to analog signal and sends output.				
		FLEX NETWORK Single-Axis Positioning Unit Tracking Loader for Single Axis Positioning Unit	FN-PC10SK41 FN-PC10LD41	Both of this unit and GP can store positioning data. Motor driver connection cable (FN-PC10CB01) is required.				
		Teaching Loader for Single-Axis Positioning Unit	FIN-PC IULD41	Programmer for Single-Axis Positioning Unit. Allows entry, editing and operation checking of high-precision positioning data. (5)				
			EN-HC10SK41					
		FLEX NETWORK High Speed Counter Unit  Motor Driver Connection Cable (1m)	FN-HC10SK41 FN-PC10CB01	High performance	ce High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output			
		Motor Driver Connection Cable (1m)	FN-PC10CB01	High performance				
		Motor Driver Connection Cable (1m)  FLEX NETWORK Communication Cable (10m)		High performand Connects the FI	ce High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.			
		Motor Driver Connection Cable (1m)	FN-PC10CB01 FN-CABLE2010-31-MS	High performand Connects the FI	ce High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output			
		Motor Driver Connection Cable (1m)  FLEX NETWORK Communication Cable (10m)  FLEX NETWORK Communication Cable (50m)	FN-PC10CB01 FN-CABLE2010-31-MS FN-CABLE2050-31-MS	High performand Connects the FI	ce High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.			
		Motor Driver Connection Cable (1m)  FLEX NETWORK Communication Cable (10m)  FLEX NETWORK Communication Cable (50m)	FN-PC10CB01 FN-CABLE2010-31-MS FN-CABLE2050-31-MS FN-CABLE2200-31-MS	High performance Connects the FI Connect GP uni 15 inch	ce High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.			
	Inetal	Motor Driver Connection Cable (1m) FLEX NETWORK Communication Cable (10m) FLEX NETWORK Communication Cable (50m) FLEX NETWORK Communication Cable (200m)	FN-PC10CB01 FN-CABLE2010-31-MS FN-CABLE2050-31-MS FN-CABLE2200-31-MS CA3-WPG15-01	High performance Connects the FI Connect GP uni 15 inch	the High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  Its with FLEX NETWORK units.			
	Instal	Motor Driver Connection Cable (1m)  FLEX NETWORK Communication Cable (10m)  FLEX NETWORK Communication Cable (50m)	FN-PC10CB01 FN-CABLE2010-31-MS FN-CABLE2050-31-MS FN-CABLE2200-31-MS CA3-WPG15-01 CA3-WPG15-01	High performanc Connects the FI Connect GP uni 15 inch 12.1 inch/ 10.4 in	the High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  Its with FLEX NETWORK units.			
	Instal	Motor Driver Connection Cable (1m) FLEX NETWORK Communication Cable (10m) FLEX NETWORK Communication Cable (50m) FLEX NETWORK Communication Cable (200m)	FN-PC10CB01 FN-CABLE2010-31-MS FN-CABLE2050-31-MS FN-CABLE2000-31-MS CA3-WPG15-01 CA3-WPG12-01 CA5-WPG10-01	High performanc Connects the FI Connect GP uni 15 inch 12.1 inch/ 10.4 in 10.4 inch (TFT t	the High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  Its with FLEX NETWORK units.			
		Motor Driver Connection Cable (1m) FLEX NETWORK Communication Cable (10m) FLEX NETWORK Communication Cable (50m) FLEX NETWORK Communication Cable (200m)	FN-PC10C801 FN-CABLE2010-31-MS FN-CABLE2050-31-MS FN-CABLE2200-31-MS CA3-WPG15-01 CA3-WPG12-01 CA5-WPG10-01 CA5-WPG8-01	High performanc Connects the FI Connect GP uni 15 inch 12.1 inch/ 10.4 in 10.4 inch (TFT to 7.5 inch	the High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  Its with FLEX NETWORK units.			
*10	AUX	Motor Driver Connection Cable (1m) FLEX NETWORK Communication Cable (10m) FLEX NETWORK Communication Cable (50m) FLEX NETWORK Communication Cable (200m) lation Gasket	FN-PC10CB01 FN-CABLE2010-31-MS FN-CABLE2050-31-MS FN-CABLE2200-31-MS CA3-WPG15-01 CA3-WPG12-01 CA5-WPG10-01 CA5-WPG8-01 CA3-WPG6-01	High performanc Connects the Fi Connect GP uni 15 inch 12.1 inch/ 10.4 in 10.4 inch (TFT 1 7.5 inch 5.7 inch 15 inch/ 12.1 inc Protects the GP	the High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  its with FLEX NETWORK units.  ch (STN/Mono type)  Provides dust and moisture resistance when GP is installed into a solid panel.  ch 10.4 inch 7.5 inch  AUX connector for GP3000 series required in case an external output is used.			
Items *10	AUX Conn USB	Motor Driver Connection Cable (1m) FLEX NETWORK Communication Cable (10m) FLEX NETWORK Communication Cable (50m) FLEX NETWORK Communication Cable (200m) lation Gasket  Connector ector Cover Cable Clamp (1 port)	FN-PC10C801 FN-CABLE2010-31-MS FN-CABLE2050-31-MS FN-CABLE2200-31-MS CA3-WPG15-01 CA3-WPG12-01 CA5-WPG10-01 CA5-WPG8-01 CA5-WPG8-01 CA5-WPG8-01 CA5-MVG8-01 CA5-MVG8-01 CA5-MVG8-01 CA5-BUSCVR-01 CA5-BUSCVR-01 CA5-USBATM-01	High performanc Connects the FI Connect GP uni 15 inch 12.1 inch/ 10.4 in 10.4 inch (TFT t 7.5 inch 5.7 inch 15 inch/ 12.1 inc Protects the GP 5.7 inch	the High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  Its with FLEX NETWORK units.  Provides dust and moisture resistance when GP is installed into a solid panel.  Provides dust and moisture resistance when GP is installed into a solid panel.  Punit's rear face connector. (Large size and small size each 1)  USB Cable clamp for 1 port products to prevent disconnection. (Set of 5 cable clamps)			
air Items *10	AUX Conn USB USB	Motor Driver Connection Cable (1m) FLEX NETWORK Communication Cable (10m) FLEX NETWORK Communication Cable (50m) FLEX NETWORK Communication Cable (200m)  lation Gasket  Connector ector Cover Cable Clamp (1 port) Cable Clamp (2 port)	FN-PC10C801 FN-CABLE2010-31-MS FN-CABLE2010-31-MS FN-CABLE2200-31-MS CA3-WPG15-01 CA3-WPG12-01 CA5-WPG10-01 CA5-WPG8-01 CA3-WPG6-01 CA5-WPG8-01 CA5-WPG8-01 CA5-WPG8-01 CA5-BUSCVR-01 CA5-USBATI-01 CA5-USBATI-01	High performanc Connects the FI Connect GP uni 15 inch 12.1 inch/ 10.4 in 10.4 inch (TFT 1 7.5 inch 5.7 inch 15 inch/ 12.1 inc Protects the GP 5.7 inch 15 inch/ 12.1 inc	the High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  The provides dust and moisture resistance when GP is installed into a solid panel.  The provides dust and moisture resistance when GP is installed into a solid panel.  The provides dust and moisture resistance when GP is installed into a solid panel.  The provides dust and moisture resistance when GP is installed into a solid panel.  The provides dust and moisture resistance when GP is installed into a solid panel.  The provides dust and moisture resistance when GP is installed into a solid panel.  The provides dust and moisture resistance when GP is installed into a solid panel.  The provides dust and moisture resistance when GP is installed into a solid panel.  The provides dust and moisture resistance when GP is installed into a solid panel.  The provides dust and moisture resistance when GP is installed into a solid panel.  The provides dust and moisture resistance when GP is installed into a solid panel.  The provides dust and moisture resistance when GP is installed into a solid panel.  The provides dust and moisture resistance when GP is installed into a solid panel.			
Repair Items *10	AUX Conn USB USB	Motor Driver Connection Cable (1m) FLEX NETWORK Communication Cable (10m) FLEX NETWORK Communication Cable (50m) FLEX NETWORK Communication Cable (200m)  lation Gasket  Connector ector Cover Cable Clamp (1 port) Cable Clamp (2 port) ower Supply Connector for Medium-sized Units	FN-PC10CB01 FN-CABLE2010-31-MS FN-CABLE2010-31-MS FN-CABLE2200-31-MS CA3-WPG15-01 CA3-WPG12-01 CA5-WPG10-01 CA5-WPG8-01 CA3-WPG8-01 CA3-WPC8-01 CA5-WPC8-01 CA5-WPC8-01 CA5-WPC8-01 CA5-BUSCVR-01 CA5-BUSCVR-01 CA5-USBATM-01 CA5-DCCNM-01	High performanc Connects the FI Connect GP uni 15 inch 12.1 inch/10.4 in 10.4 inch (TFT I 7.5 inch 15 inch/12.1 inc Protects the GP 5.7 inch 15 inch/12.1 inc 15 inch/5.7 inch	ce High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  its with FLEX NETWORK units.  ch (STN/Mono type)  Provides dust and moisture resistance when GP is installed into a solid panel.  ch/ 10.4 inch/ 7.5 inch  AUX connector for GP3000 series required in case an external output is used.  USB Cable clamp for 1 port products to prevent disconnection. (Set of 5 cable clamps)  ch/ 10.4 inch/ 7.5 inch  USB Cable clamp for 2 port products to prevent disconnection. (Set of 5 cable clamps)  Connector for attaching power supply to medium-sized units. (Set of 5 connectors)			
Repair Items *10	AUX Conn USB USB DC P	Motor Driver Connection Cable (1m) FLEX NETWORK Communication Cable (10m) FLEX NETWORK Communication Cable (50m) FLEX NETWORK Communication Cable (200m)  Iation Gasket  Connector ector Cover Cable Clamp (1 port) Cable Clamp (2 port) ower Supply Connector for Medium-sized Units over Supply Connector for Large-sized Units	FN-PC10CB01 FN-CABLE2010-31-MS FN-CABLE2010-31-MS FN-CABLE2000-31-MS CA3-WPG15-01 CA3-WPG12-01 CA5-WPG10-01 CA5-WPG8-01 CA5-WPG8-01 CA5-WC8-01 CA5-BUSCVR-01 CA5-BUSCVR-01 CA5-BUSCVR-01 CA5-BUSCVR-01 CA5-USBATM-01 CA5-DCCNM-01 CA5-DCCNM-01	High performanc Connects the FI Connect GP uni 15 inch 12.1 inch/ 10.4 inch 17.5 inch 15 inch 15 inch/ 12.1 inc Protects the GP 5.7 inch 15 inch/ 12.1 inc 15 inch/ 12.1 inc 15 inch/ 12.1 inc	ce High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  its with FLEX NETWORK units.  ch (STN/Mono type)  Provides dust and moisture resistance when GP is installed into a solid panel.  ch 10.4 inch 7.5 inch  AUX connector for GP3000 series required in case an external output is used.  Punit's rear face connector. (Large size and small size each 1)  USB Cable clamp for 1 port products to prevent disconnection. (Set of 5 cable clamps)  ch 10.4 inch 7.5 inch  Connector for attaching power supply to medium-sized units. (Set of 5 connectors)  ch 10.4 inch *1.2  Connector for attaching power supply to large-sized units. (Set of 5 connectors)			
Repair Items *10	AUX Conn USB USB DC P DC P	Motor Driver Connection Cable (1m) FLEX NETWORK Communication Cable (10m) FLEX NETWORK Communication Cable (50m) FLEX NETWORK Communication Cable (200m)  lation Gasket  Connector ector Cover Cable Clamp (1 port) Cable Clamp (2 port) ower Supply Connector for Medium-sized Units lation Fastener	FN-PC10C801 FN-CABLE2010-31-MS FN-CABLE2010-31-MS FN-CABLE2200-31-MS FN-CABLE2200-31-MS CA3-WPG15-01 CA3-WPG10-01 CA5-WPG60-01 CA5-WPG60-01 CA5-WPG60-01 CA5-WC60-01 CA5-USBATI-01 CA5-USBATI-01 CA5-USBATI-01 CA5-DCCNM-01 CA5-DCCNM-01 CA5-DCCNL-01 CA5-DCCNL-01 CA5-DCCNL-01 CA5-DCCNL-01	High performanc Connects the FI Connect GP uni 15 inch 12.1 inch/ 10.4 inch 10.4 inch (TFT 17.5 inch 15 inch/ 12.1 inc 15 inch/ 12.1 inc	te High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  Its with FLEX NETWORK units.  In the (STN/Mono type) Provides dust and moisture resistance when GP is installed into a solid panel.  Provides dust and moisture resistance when GP is installed into a solid panel.  In the connector of GP3000 series required in case an external output is used.  Punit's rear face connector. (Large size and small size each 1)  USB Cable clamp for 1 port products to prevent disconnection. (Set of 5 cable clamps)  USB Cable clamp for 2 port products to prevent disconnection. (Set of 5 cable clamps)  cht 10.4 inch 12  Connector for attaching power supply to medium-sized units. (Set of 5 connectors)  cht 10.4 inch 12  Connector for attaching power supply to large-sized units. (Set of 5 connectors)			
Repair Items *10	AUX Conn USB USB DC P DC P Instal	Motor Driver Connection Cable (1m) FLEX NETWORK Communication Cable (10m) FLEX NETWORK Communication Cable (50m) FLEX NETWORK Communication Cable (200m)  lation Gasket  Connector ector Cover Cable Clamp (1 port) Cable Clamp (2 port) ower Supply Connector for Medium-sized Units ower Supply Connector for Large-sized Units lation Fastener Connector	FN-PC10CB01 FN-CABLE2010-31-MS FN-CABLE2010-31-MS FN-CABLE2200-31-MS CA3-WPG15-01 CA3-WPG10-01 CA5-WPG10-01 CA5-WPG6-01 CA3-WPG6-01 CA3-WC6-01 CA5-WC6-01 CA5-WC6-01 CA5-WC6-01 CA5-BUSCVR-01 CA5-BUSCVR-01 CA5-BUSCVR-01 CA5-CA5-CA5-CA5-CA5-CA5-CA5-CA5-CA5-CA5-	High performanc Connects the FI Connect GP uni 15 inch 12.1 inch/ 10.4 in 10.4 inch (TFT I 7.5 inch 5.7 inch 15 inch/ 12.1 inc Protects the GP 5.7 inch 15 inch/ 12.1 inc 15 inch/ 12.1 inc 15 inch/ 12.1 inc Used to install II Connector attact	the High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  It with FLEX NETWORK units.  Provides dust and moisture resistance when GP is installed into a solid panel.  In the CSTNMono type of the counter of the co			
Repair Items *10	AUX Conn USB USB DC P DC P Instal DIO C	Motor Driver Connection Cable (1m) FLEX NETWORK Communication Cable (10m) FLEX NETWORK Communication Cable (50m) FLEX NETWORK Communication Cable (200m)  lation Gasket  Connector ector Cover Cable Clamp (1 port) Cable Clamp (2 port) ower Supply Connector for Medium-sized Units lation Fastener Connector  NETWORK Connector	FN-PC10CB01 FN-CABLE2010-31-MS FN-CABLE2010-31-MS FN-CABLE2200-31-MS CA3-WPG15-01 CA3-WPG10-01 CA5-WPG8-01 CA5-WPG8-01 CA5-WPG8-01 CA5-WPC8-01 CA5-WPC8-01 CA5-BUSCVR-01 CA5-BUSCVR-01 CA5-USBATM-01 CA5-DCCNL-01 CA5-DCCNL-01 CA5-ATALL-01 CA5-ATALL-01 CA6-DIOCNALL-01 CA6-FNCNALL-01	High performanc Connects the Fit Connect GP uni 15 inch 12.1 inch/10.4 in 10.4 inch (TFT 1 7.5 inch 5.7 inch 15 inch/12.1 inc Protects the GP 5.7 inch 15 inch/12.1 inc 7.5 inch/12.1 inc Used to install til Used to install til Connector attact	the High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  Its with FLEX NETWORK units.  In the High Speed counter that can easily change counter input types. Can create both a wide range of data and cam output list with FLEX NETWORK units.  In the High Speed counter that can easily change counter input types. Can create both a wide range of data and cam output list with FLEX NETWORK units.  In the High Speed counter that can easily change counter that can easily change counter that can easily provides dust and moisture resistance when GP is installed into a solid panel.  In the High Speed counter that can easily change counter that can easily the can external output is used.  In the High Speed counter that can easily change change counter that can easily change cha			
Repair Items *10	AUX Conn USB USB DC P DC P Instal DIO C	Motor Driver Connection Cable (1m) FLEX NETWORK Communication Cable (10m) FLEX NETWORK Communication Cable (50m) FLEX NETWORK Communication Cable (200m)  lation Gasket  Connector ector Cover Cable Clamp (1 port) Cable Clamp (2 port) ower Supply Connector for Medium-sized Units ower Supply Connector for Large-sized Units lation Fastener Connector	FN-PC10C801 FN-CABLE2010-31-MS FN-CABLE2010-31-MS FN-CABLE2200-31-MS FN-CABLE2200-31-MS CA3-WPG12-01 CA3-WPG12-01 CA5-WPG61-01 CA5-WPG8-01 CA5-WPG8-01 CA5-WPG8-01 CA5-USBATI-01 CA5-USBATI-01 CA5-USBATI-01 CA5-DCCNM-01 FN-L010CNML-01 FN-L010CNML-01 FN-L010CNML-01 FN-L010CNML-01 FN-L010CNML-01 FN-L010CNML-01 FN-L010CNM	High performanc Connects the FI Connect GP uni 15 inch 15.1 inch 10.4 inch (TFT 1 7.5 inch 5.7 inch 15 inch/12.1 inc Protects the GP 5.7 inch 15 inch/12.1 inc 15 inch/12.1 inc Used to install to Connector attact Connects the FI	the High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  It with FLEX NETWORK units.  Provides dust and moisture resistance when GP is installed into a solid panel.  In the GSTNMono type of the provides dust and moisture resistance when GP is installed into a solid panel.  In the connector of GP3000 series required in case an external output is used.  Punit's rear face connector. (Large size and small size each 1)  USB Cable clamp for 1 port products to prevent disconnection. (Set of 5 cable clamps) the connector for attaching power supply to medium-sized units. (Set of 5 connectors) the GP into a solid panel. (1 set for 4 fasteners) the dot to the DIO interface. Connects an external I/O device. (Set of 5 connectors)			
Repair Items *10	AUX Conn USB USB DC P DC P Instal DIO C	Motor Driver Connection Cable (1m) FLEX NETWORK Communication Cable (10m) FLEX NETWORK Communication Cable (50m) FLEX NETWORK Communication Cable (200m)  lation Gasket  Connector ector Cover Cable Clamp (1 port) Cable Clamp (2 port) ower Supply Connector for Medium-sized Units lation Fastener Connector  NETWORK Connector	FN-PC10C801 FN-CABLE2010-31-MS FN-CABLE2010-31-MS FN-CABLE2200-31-MS FN-CABLE2200-31-MS CA3-WPG15-01 CA3-WPG10-01 CA5-WPG60-01 CA5-WPG60-01 CA5-WPG60-01 CA5-WC60-01 CA5-WC60-01 CA5-USBATI-01 CA5-USBATI-01 CA5-DCCNM-01 CA5-DCCNM-01 CA5-DCCNL-01 CA5-DCCNL-01 CA6-FNCNALL-01 CA6-FNCNALL-01 CA6-FNCNALL-01 CA6-FNCNALL-01 FN-L010CBL CA3-DFS15-01	High performanc Connects the FI Connect GP uni 15 inch 12.1 inch/10.4 in 10.4 inch (TFT 1 7.5 inch 15 inch) 12.1 inc 15 inch/12.1 inc 15 inch/12.1 inc 15 inch/5.7 inc 15 inch/5.7 inc 15 inch/5.7 inc 15 inch/5.7 inc Used to install tl Connector attac Connector attac Connects the FI 15 inch	ter High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  Its with FLEX NETWORK units.  Provides dust and moisture resistance when GP is installed into a solid panel.  Provides dust and moisture resistance when GP is installed into a solid panel.  Punit's rear face connector. (Large size and small size each 1)  USB Cable clamp for 1 port products to prevent disconnection. (Set of 5 cable clamps)  10.4 inch 7.5 inch  USB Cable clamp for 2 port products to prevent disconnection. (Set of 5 cable clamps)  11 Connector for attaching power supply to medium-sized units. (Set of 5 connectors)  12 connector for attaching power supply to large-sized units. (Set of 5 connectors)  13 ched to the DIO interface. Connects an external I/O device. (Set of 5 connectors)  14 the FLEX NETWORK single-axis positioning unit and the single-axis teaching loader. (Set of 5 cables)  19			
s Repair Items *10	AUX Conn USB USB DC P DC P Instal DIO C FLEX Single	Motor Driver Connection Cable (1m) FLEX NETWORK Communication Cable (10m) FLEX NETWORK Communication Cable (50m) FLEX NETWORK Communication Cable (200m)  lation Gasket  Connector ector Cover Cable Clamp (1 port) Cable Clamp (2 port) ower Supply Connector for Medium-sized Units ower Supply Connector for Large-sized Units lation Fastener Connector NETWORK ConnectorAxis Teaching Loader Cable (5m)	FN-PC10CB01 FN-CABLE2010-31-MS FN-CABLE2010-31-MS FN-CABLE2200-31-MS FN-CABLE2200-31-MS CA3-WPG15-01 CA3-WPG10-01 CA5-WPG60-01 CA5-WPG60-01 CA5-WPG60-01 CA5-WPG60-01 CA5-BUSCVR-01 CA5-BUSCVR-01 CA5-BUSCVR-01 CA5-BUSCVR-01 CA5-BUSCVR-01 CA5-COSCMI-01 CA5-COSCMI-01 CA5-COSCMI-01 CA5-DCCNL-01 CA5-DCCNL-01 CA5-DCCNL-01 CA6-DIOCNALL-01 CA6-DIOCNALL-01 CA6-DIOCNALL-01 CA6-DIOCNALL-01 CA6-DIOCNALL-01 CA6-DIOCNALL-01 CA6-DIOCNALL-01 CA6-DIOCNALL-01 CA6-DIOCNALL-01 CA5-DS15-01 CA3-DFS15-01 CA3-DFS15-01	High performanc Connects the Fit Connect GP uni 15 inch 12.1 inch/10.4 in 10.4 inch (TFT t 7.5 inch 15 inch/12.1 inch/12.1 inch/12.1 inch 15 inch/12.1 inch/10.4 i1	ter High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  Its with FLEX NETWORK units.  Provides dust and moisture resistance when GP is installed into a solid panel.  Provides dust and moisture resistance when GP is installed into a solid panel.  USB Cable clamp for 1 port products to prevent disconnection. (Set of 5 cable clamps)  Lit 10.4 inch 7.5 inch  USB Cable clamp for 1 port products to prevent disconnection. (Set of 5 cable clamps)  Lit 10.4 inch 7.5 inch  Connector for attaching power supply to medium-sized units. (Set of 5 connectors)  cht 10.4 inch 112  Connector for attaching power supply to large-sized units. (Set of 5 connectors)  the GP into a solid panel. (1 set for 4 fasteners)  ched to the DIO interface. Connects an external I/O device. (Set of 5 connectors) 19  thed to the FLEX NETWORK interface. Connects the FLEX NETWORK communication cable. (Set of 5 cables) 19  LEX NETWORK single-axis positioning unit and the single-axis teaching loader. (Set of 5 cables) 19  Disposable. dirt-resistant sheet for the GP unit's screen.			
s Repair Items *10	AUX Conn USB USB DC P DC P Instal DIO C FLEX Single	Motor Driver Connection Cable (1m) FLEX NETWORK Communication Cable (10m) FLEX NETWORK Communication Cable (50m) FLEX NETWORK Communication Cable (200m)  lation Gasket  Connector ector Cover Cable Clamp (1 port) Cable Clamp (2 port) ower Supply Connector for Medium-sized Units lation Fastener Connector  NETWORK Connector	FN-PC10C801 FN-CABLE2010-31-MS FN-CABLE2050-31-MS FN-CABLE2050-31-MS FN-CABLE2200-31-MS FN-CABLE2200-31-MS CA3-WPG15-01 CA3-WPG15-01 CA5-WPG10-01 CA5-WPG8-01 CA5-WPG8-01 CA5-WPG8-01 CA5-WPG8-01 CA5-USBATM-01 CA5-USBATM-01 CA5-USBATM-01 CA5-USBATM-01 CA5-DCCNL-01 CA5-DCCNL-01 CA3-MTFALL-01 CA6-DCCNL-01 CA3-MTFALL-01 CA6-FNCNALL-01 FN-LD10CBL CA3-DFS15-01 CA3-DFS15-01 CA3-DFS15-01 CA3-DFS15-01 CA3-DFS15-01	High performanc Connects the FI Connect GP uni 15 inch 12.1 inch/10.4 inch 17.5 inch 15.7 inch 15 inch/12.1 inc Protects the GP 5.7 inch 15 inch/12.1 inc 7.5 inch/5.7 inch 15 inch/12.1 inc Used to install Used Connector attact Connector attact	the High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  Its with FLEX NETWORK units.  Its with FLEX NETWORK units.  Provides dust and moisture resistance when GP is installed into a solid panel.  In the high single and solid panel is units and moisture resistance when GP is installed into a solid panel.  In the high single and small size each 1)  USB Cable clamp for 1 port products to prevent disconnection. (Set of 5 cable clamps) and the GP into the GP into a solid panel.  Connector for attaching power supply to large-sized units. (Set of 5 connectors) the GP into a solid panel. (1 set for 4 fasteners)  The GP into a solid panel. (1 set for 4 fasteners)  The GP into a solid panel. (1 set for 4 fasteners)  The GP into a solid panel. (1 set for 4 fasteners)  The GP into a solid panel. (1 set for 4 fasteners)  The GP into a solid panel. (1 set for 5 connects the FLEX NETWORK communication cable. (Set of 5 connectors) 19  LEX NETWORK single-axis positioning unit and the single-axis teaching loader. (Set of 5 cables) 19  Disconsible distracistant sheef for the GP unit's except.			
s Repair Items *10	AUX Conn USB USB DC P DC P Instal DIO C FLEX Single	Motor Driver Connection Cable (1m) FLEX NETWORK Communication Cable (10m) FLEX NETWORK Communication Cable (50m) FLEX NETWORK Communication Cable (200m)  lation Gasket  Connector ector Cover Cable Clamp (1 port) Cable Clamp (2 port) ower Supply Connector for Medium-sized Units ower Supply Connector for Large-sized Units lation Fastener Connector NETWORK ConnectorAxis Teaching Loader Cable (5m)	FN-PC10C801 FN-CABLE2010-31-MS FN-CABLE2010-31-MS FN-CABLE2200-31-MS FN-CABLE2200-31-MS FN-CABLE2200-31-MS CA3-WPG12-01 CA3-WPG12-01 CA5-WPG30-01 CA5-WPG30-01 CA5-WPG30-01 CA5-WPG30-01 CA5-WPG30-01 CA5-BUSCNR-01 CA5-BUSCNR-01 CA5-USBATM-01 CA5-USBATM-01 CA5-USBATM-01 CA5-DCCNM-01 CA5-DCCNM-01 CA5-DCCNM-01 CA3-ATFALL-01 CA6-DIOCNALL-01 FN-LD10CBL CA3-DFS15-01 CA3-DFS15-01 CA3-DFS12-01 CA3-DFS12-01 CA5-DFS10-01 PS400-DF00	High performanc Connects the FI Connect GP uni 15 inch 12.1 inch/10.4 in 10.4 inch (TFT 17.5 inch 15.7 inch 15 inch/12.1 inc Protects the GP 5.7 inch 15 inch/12.1 inc 15 inch/12.1 inc Used to install it Connector attact Connect	the High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  Its with FLEX NETWORK units.  Provides dust and moisture resistance when GP is installed into a solid panel.  Provides dust and moisture resistance when GP is installed into a solid panel.  USB Cable clamp for 1 port products to prevent disconnection. (Set of 5 cable clamps)  List 10.4 inch 7.5 inch  USB Cable clamp for 2 port products to prevent disconnection. (Set of 5 cable clamps)  List 10.4 inch 7.5 inch  Connector for attaching power supply to medium-sized units. (Set of 5 connectors)  Chi 10.4 inch 12  Connector for attaching power supply to large-sized units. (Set of 5 connectors)  Chi 10.4 inch 12  Connector for attaching power supply to large-sized units. (Set of 5 connectors)  Chi 10.4 inch 12  Connector for attaching power supply to large-sized units. (Set of 5 connectors)  Chied to the DIO interface. Connects an external I/O device. (Set of 5 connectors) 19  Hed to the FLEX NETWORK interface. Connects the FLEX NETWORK communication cable. (Set of 5 cables) 19  LEX NETWORK single-axis positioning unit and the single-axis teaching loader (Set of 5 cables) 19  Disposable. dirt-resistant sheet for the GP unit's screen.			
s Repair Items *10	AUX Conn USB USB DC P DC P Instal DIO C FLEX Single	Motor Driver Connection Cable (1m) FLEX NETWORK Communication Cable (10m) FLEX NETWORK Communication Cable (50m) FLEX NETWORK Communication Cable (200m)  lation Gasket  Connector ector Cover Cable Clamp (1 port) Cable Clamp (2 port) ower Supply Connector for Medium-sized Units ower Supply Connector for Large-sized Units lation Fastener Connector NETWORK ConnectorAxis Teaching Loader Cable (5m)	FN-PC10C801 FN-CABLE2010-31-MS FN-CABLE2010-31-MS FN-CABLE2200-31-MS FN-CABLE2200-31-MS FN-CABLE2200-31-MS CA3-WPG12-01 CA3-WPG12-01 CA5-WPG10-01 CA5-WPG8-01 CA3-WPG6-01 CA5-WCS-01 CA5-WCS-01 CA5-WCS-01 CA5-WCS-01 CA5-USBATI-01 CA5-USBATI-01 CA5-DCCNII-01 CA5-DCCNII-01 CA5-DCCNII-01 CA5-DCNII-01 CA5-DCSNII-01	High performanc Connects the FI Connect GP uni 15 inch 12.1 inch/10.4 in 10.4 inch (TFT 1 7.5 inch 15 inch/12.1 inc Frotects the GP 5.7 inch 15 inch/12.1 inc 15 inch/12.1 inc 15 inch/12.1 inc Connect attact Connects the GP 15 inch 11 inch/10.1 inch 11 inch/10.1 inch 12.1 inch/10.4 inch 12.1 inch/10.4 inch 12.1 inch/10.4 inch/10.4 inch/10.4 inch/10.4 inch/10.4 inch/10.4 inch/10.4 inch/10.5 inch	the High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  Its with FLEX NETWORK units.  Provides dust and moisture resistance when GP is installed into a solid panel.  Provides dust and moisture resistance when GP is installed into a solid panel.  USB Cable clamp for 1 port products to prevent disconnection. (Set of 5 cable clamps)  Lit 10.4 inch 7.5 inch  USB Cable clamp for 2 port products to prevent disconnection. (Set of 5 cable clamps)  Lit 10.4 inch 7.5 inch  Connector for attaching power supply to medium-sized units. (Set of 5 connectors)  ch/ 10.4 inch 12  Connector for attaching power supply to large-sized units. (Set of 5 connectors)  the GP into a solid panel. (1 set for 4 fasteners)  ched to the DIO interface. Connects an external I/O device. (Set of 5 connectors) 19  the GIVEN NETWORK single-axis positioning unit and the single-axis teaching loader. (Set of 5 cables) 19  Disposable. dirt-resistant sheet for the GP unit's screen.			
s Repair Items *10	AUX Conn USB USB DC P DC P Instal DIO C FLEX Single	Motor Driver Connection Cable (1m) FLEX NETWORK Communication Cable (10m) FLEX NETWORK Communication Cable (50m) FLEX NETWORK Communication Cable (200m)  lation Gasket  Connector ector Cover Cable Clamp (1 port) Cable Clamp (2 port) ower Supply Connector for Medium-sized Units ower Supply Connector for Large-sized Units lation Fastener Connector NETWORK ConnectorAxis Teaching Loader Cable (5m)	FN-PC10CB01 FN-CABLE2010-31-MS FN-CABLE2010-31-MS FN-CABLE2200-31-MS FN-CABLE2200-31-MS CA3-WPG15-01 CA3-WPG10-01 CA5-WPG60-01 CA5-WPG60-01 CA5-WPG60-01 CA5-WDG60-01 CA5-BUSCVR-01 CA5-	High performanc Connects the FI Connect GP uni 15 inch 12.1 inch/10.4 in 10.4 inch (TFT I 7.5 inch 5.7 inch 15 inch/12.1 inc Protects the GP 5.7 inch 15 inch/12.1 inc 15 inch/12.1 inc Connector attact Connector attact Connects the FI 15 inch 15 inch/12.1 inc Tonnects the FI 15 inch 17.5 inch 18.5 inch 19.6 inch/10.4 inch 19.6 inch/10.4 inch 19.6 inch/10.4 inch 19.6 inch/10.4 inch 19.6 inch 19.6 inch 19.7 inch 19.	te High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  Its with FLEX NETWORK units.  Provides dust and moisture resistance when GP is installed into a solid panel.  Provides dust and moisture resistance when GP is installed into a solid panel.  USB Cable clamp for 1 port products to prevent disconnection. (Set of 5 cable clamps) with 10.4 inch 7.5 inch  USB Cable clamp for 1 port products to prevent disconnection. (Set of 5 cable clamps) with 10.4 inch 7.5 inch  Connector for attaching power supply to medium-sized units. (Set of 5 connectors) with 10.4 inch 12  Connector for attaching power supply to large-sized units. (Set of 5 connectors) when 12  the GP into a solid panel. (1 set for 4 fasteners)  ched to the DIO interface. Connects an external I/O device. (Set of 5 connectors) 19  the USN NETWORK single-axis positioning unit and the single-axis teaching loader. (Set of 5 cables) 19  Disposable. dirt-resistant sheet for the GP unit's screen.			
ntenance Items *10	AUX Conn USB USB DC P DC P Instal DIO C FLEX Single	Motor Driver Connection Cable (1m) FLEX NETWORK Communication Cable (10m) FLEX NETWORK Communication Cable (50m) FLEX NETWORK Communication Cable (200m)  lation Gasket  Connector ector Cover Cable Clamp (1 port) Cable Clamp (2 port) ower Supply Connector for Medium-sized Units ower Supply Connector for Large-sized Units lation Fastener Connector NETWORK ConnectorAxis Teaching Loader Cable (5m)	FN-PC10C801 FN-CABLE2010-31-MS FN-CABLE2010-31-MS FN-CABLE2000-31-MS FN-CABLE2200-31-MS FN-CABLE2200-31-MS FN-CABLE2200-31-MS CA3-WPG12-01 CA3-WPG12-01 CA5-WPG12-01 CA5-WPG8-01 CA5-WPG8-01 CA5-WPG8-01 CA5-WPG8-01 CA5-WPG8-01 CA5-WPG8-01 CA5-WPG8-01 CA5-USBATM-01 CA5-USBATM-01 CA5-USBATM-01 CA5-DCCNM-01 CA5-DCCNM-01 CA5-DCCNM-01 CA5-DCCNM-01 FN-L010CNALL-01 CA3-BTFALL-01 CA3-BTFALL-01 FN-LD10CBL CA3-DFS15-01 CA3-DFS15-01 CA3-DFS15-01 CA3-DFS15-01 CA3-DFS12-01 CA3-DFS16-01 PS400-DF00 CA3-DFS6-01 CA3-BLU15-01 CA3-BLU15-01 CA3-BLU15-01 CA3-BLU15-01	High performanc Connects the FI Connect GP uni 15 inch 12.1 inch/10.4 inch 17.5 inch 15 inch/12.1 inch Protects the GP 5.7 inch 15 inch/12.1 inc Protects the GP 5.7 inch 15 inch/12.1 inc Used to install th Connector attact Conn	the High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam output.  LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  its with FLEX NETWORK units.  This hacklight is used for replacement.  Provides dust and moisture resistance when GP is installed into a solid panel.  Provides dust and moisture resistance when GP is installed into a solid panel.  Divides dust and moisture resistance when GP is installed into a solid panel.  Divides Cable clamp for 1 port products to prevent disconnection. (Set of 5 cable clamps) and the connector of attaching power supply to medium-sized units. (Set of 5 connectors) and to the FLEX NETWORK interface. Connects an external I/O device. (Set of 5 connectors)  Disposable, dirt-resistant sheet for the GP unit's screen.  This backlight is used for replacement.			
ntenance Items *10	AUX Conn USB USB DC P DC P Instal DIO C FLEX Single	Motor Driver Connection Cable (1m) FLEX NETWORK Communication Cable (10m) FLEX NETWORK Communication Cable (50m) FLEX NETWORK Communication Cable (200m)  Idea of the control of the contr	FN-PC10CB01 FN-CABLE2010-31-MS FN-CABLE2010-31-MS FN-CABLE2200-31-MS FN-CABLE2200-31-MS CA3-WPG15-01 CA3-WPG10-01 CA5-WPG60-01 CA5-WPG60-01 CA5-WPG60-01 CA5-WDG60-01 CA5-BUSCVR-01 CA5-	High performanc Connects the FI Connect GP uni 15 inch 12.1 inch/10.4 in 10.4 inch (TFT I 7.5 inch 5.7 inch 15 inch/12.1 inc Protects the GP 5.7 inch 15 inch/12.1 inc 15 inch/12.1 inc Connector attact Connector attact Connects the FI 15 inch 15 inch/12.1 inc Tonnects the FI 15 inch 17.5 inch 18.5 inch 19.6 inch/10.4 inch 19.6 inch/10.4 inch 19.6 inch/10.4 inch 19.6 inch/10.4 inch 19.6 inch 19.6 inch 19.7 inch 19.	the High-Speed counter that can easily change counter input types. Can create both a wide range of data and cam ou LEX NETWORK single-axis positioning unit and the servo and stepping drivers.  Its with FLEX NETWORK units.  It with FLEX NETWORK units.  Provides dust and moisture resistance when GP is installed into a solid panel.  It with 10.4 inch / 7.5 inch  AUX connector for GP3000 series required in case an external output is used.  Punit's rear face connector. (Large size and small size each 1)  USB Cable clamp for 1 port products to prevent disconnection. (Set of 5 cable clamps) on the connector for attaching power supply to medium-sized units. (Set of 5 connectors) chi 10.4 inch 17.5 inch  USB Cable clamp for 2 port products to prevent disconnection. (Set of 5 connectors) chi 10.4 inch 17.5 inch  USB Cable clamp for 2 port products to prevent disconnection. (Set of 5 connectors) chi 10.4 inch 17.5 inch  USB Cable clamp for 2 port products to prevent disconnection. (Set of 5 connectors) chi 10.4 inch 17.5 inch  USB Cable clamp for 2 port products to prevent disconnection. (Set of 5 connectors) chi 10.4 inch 17.5 inch  USB Cable clamp for 2 port products to prevent disconnection. (Set of 5 connectors) chi 10.4 inch 17.5 inch  USB Cable clamp for 2 port products to prevent disconnection. (Set of 5 connectors) chi 10.4 inch 17.5 inch  USB Cable clamp for 2 port products to prevent disconnection. (Set of 5 connectors) chi 10.4 inch 17.5 inch  USB Cable clamp for 2 port products to prevent disconnection. (Set of 5 connectors) chi 10.4 inch 17.5 inch  USB Cable clamp for 2 port products to prevent disconnection. (Set of 5 connectors) chi 10.4 inch 17.5 inch  USB Cable clamp for 2 port products to prevent disconnection. (Set of 5 connectors) chi 10.4 inch 17.5 inch 10.4 inch 17.5 inch  USB Cable clamp for 2 port products to prevent disconnection. (Set of 5 connectors) chi 10.4 inch 17.5 inch 10.			

Purchase when installing GP-Pro EX on more than one computer. One license is necessary for every computer.

Setup Editor and Runtime included.

Purchase when installing Setup Editor and Runtime on more than one computer.

Purchase when installing only Runtime on more than one computer.

Runtime when installing only Runtime on more than one computer.

Runtime when installing only Runtime on more than one computer.

Runtime when installing only Runtime on more than one computer.

Runtime when installing only Runtime on more than one computer.

Runtime when installing only Runtime on more than one computer.

Runtime when installing only Runtime on more than one computer.

Runtime when installing installing in the work of the work o

<sup>\*8</sup> For termination set switch to "ON".
\*9 C (Control) Class FLEX NETWORK Board Type only.
\*10 GP bundles maintenace items. You only need to purchase new items in case of breakage or loss.
\*11 7.5 inch must use the 2 port USB Cable Clamp (CA5-USBATL-01).
\*12 DC type only.

### **Instruction Notation List**

## **Instruction Notation List**

		ļ	Instruction					Instruction	
Cate	gory	Instruction Name	Notation	Ladder Symbol	Cate	gory	Instruction Name	Notation	Ladder Symbol
	Bit Basic	Normally Open	NO	<del></del>		Arithmetic Operation	Division	DIV	S1 D1
		Normally Closed	NC	14-					52
		Out Negative	OUT	-0-			Modulation	MOD	MOD S1 D1
	ä	Out	OUTN	-()-					S2
		Set Reset	SET	-S- -R-		hmet	Increment	INC	INC D1
	n O	Positive	PT	<u> </u>		Ari			
	Pulse Basic	Transition Negative	NT	  - ↓ -			Decrement	DEC	DEC D1
		Transition Jump	JMP	−≫LABEL NAME		<u></u>			JADD
		Jump to Subroutine	JSR	->SUBROUTINE NAME«-		Time Operation	Time Addition	JADD	S1 D1
						o o	Time		JSUB
tion		Return	RET	RET		트	Subtraction	JSUB	S1 D1 S2
Basic Instruction		Repeat number of times (For)	FOR	FOR S1			Logical AND	AND	S1 D1
Bas	trol	Repeat number of times (NEXT)	NEXT	NEXT		peration	Logical OR	OR	OR
	Program Control	Inverse	INV	-/-		Logical Operation	Logical XOR	XOR	S1 D1
	Prog	Exit	EXIT	EXIT	_	1	Logical NOT	NOT	NOT S1 S2
		Power Bar Control	PBC	PBC S1 D1	Operation Instruction	Rotation Shift Transfer	Move (Copy)	MOV	MOV S1 D1
		Power Bar Reset	PBR	PBR S1	eration Ir		Block Move (Block Copy)	BLMV	S1 D1 S2
		Logic Wait Instruction	LWA	LWA S1	do		Fill Move	FLMV	S1 D1
		On Delay Timer	TON	TON (ms) Q PT ET			Exchange	хсн	D1 D2
i.	5	Off Delay Timer	TOF	TOF (ms) Q PT ET			Shift Left	SHL	SHL S1 D1 S2
Timor Instruction		Pulse Timer	TP	TP (ms) Q PT ET			Shift Right	SHR	SHR S1 D1 S2
Ë		Accumulate On Delay Timer	TONA	TONA (ms) Q — R PT ET			Arithmetic Shift Left	SAL	SAL S1 D1 S2
		Accumulate Off Delay Timer	TOFA	TOFA (ms) Q R PT ET			Arithmetic Shift Right	SAR	SAR S1 D1 S2
i i		Up Counter	сти	CTU Q R PV CV			Rotate Left	ROL	S1 D1 S2
activitation laster of		Down Counter	CTD	CTD Q R PV CV			Rotate Right	ROR	81 D1 82
	<u> </u>	Up/ Down Counter	CTUD	UP QU R QD PV CV		Ro	Rotate Left with Carry Over	RCL	S1 D1 S2
	Date Time Read/ Write Read/ Write	Time Read	JRD	JRD D1			Rotate Right with Carry Over	RCR	S1 D1 S2
R/ W Instruction		Time Set	JSET	JSET S1 D1	Ľ.		Sum	SUM	SUM S1 D1 S2
R/ W		Date Read	NRD	NRD D1		nction	Average	AVE	S1 D1
	Read	Date Set	NSET	NSET S1 D1	Function Instruction	Calculate Function	Square Root	SQRT	SQRT S1 D1
truction	Arithmetic Operation	Add	ADD	S1 D1 S2	Function	Cal	Bit Conut	BCNT	BCNT S1 D1
Operation Instruction		Subtract	SUB	SUB S1 D1 S2			PID	PID	S1 D1 \$2 \$3
Oper		Multiplication	MUL	MUL S1 D1 S2		Trigonometric Function	Sine	SIN	SIN S1 D1

Cata		Instruction Name	Instruction	Ladder Cumbal	Cata		Instruction Name	Instruction	Ladder Cumbal
Cate	gory	Instruction Name	Notation	Ladder Symbol	Cate	gory	Instruction Name	Notation	Ladder Symbol
	Trigonometric Function	Cosine	cos	COS S1 D1	Compare Instruction	Date Compare	Date Compare Equal	NEQ	NEQ (=) S1 S2
		Tangent	TAN	TAN S1 D1			Date Compare Greater Than	NGT	NGT (>) S1 S2
_		Arc Sine	ASIN	ASIN S1 D1			Date Compare Greater Than Or Equal To	NGE	NGE (>=) S1 S2
Function Instruction		Arc Cosine	ACOS	ACOS S1 D1			Date Compare Less Than	NLT	NLT (c) S1 S2
-unction I		Arc Tangent	ATAN	S1 D1			Date Compare Less Than Or Equal To	NLE	NLE (<=) S1 S2
_		Cotangent	сот	COT S1 D1			Date Compare Not Equal	NNE	NNE (<) S1 S2
	ction	Exponential	EXP	S1 D1			BCD Convert	BCD	BCD S1 D1
	The other Function	Logarithm	LN	S1 D1			BIN Convert	BIN	BIN S1 D1
	The	Log Base 10	LG10	LG10 S1 D1		ert	Encode	ENCO	ENCO S1 D1
	Arithmetic Compare	Equal	EQ	EQ (+) S1 S2	Convert Instruction	Data Convert	Decode	DECO	DECO S1 D1
		Greater Than	GT	GT (x) S1 S2			Convert to Radian	RAD	RAD S1 D1
		Greater Than Or Equal To	GE	GE (>=) S1 S2			Degree Convert	DEG	DEG S1 D1
		Less Than	LT	LT (c) S1 S2			Scale	SCL	SCL S1 D1
c		Less Than Or Equal To	LE	LE (<=) S1 S2		Type Convert	Convert Integer to Float	I2F	S1 D1
Compare Instruction		Not Equal	NE	NE (<>) S1 S2			Convert Integer to Real	I2R	12R S1 D1
compare		Time Compare Equal	JEQ	JEQ (+) S1 S2			Convert Float to Integer	F2I	F2i S1 D1
U	Time Compare	Time Compare Greater Than	JGT	JGT (x) S1 S2			Convert Float to Real	F2R	F2R S1 D1
		Time Compare Less Than	JLT	JLT (s)			Convert Real to Integer	R2I	R2I S1 D1
		Time Compare Greater Than Or Equal To	JGE	JGE (>=) - S1 S2			Convert Real to Float	R2F	R2F S1 D1
		Time Compare Less Than Or Equal To	JLE	JLE (<=) S1 S2			Convert Seconds	H2S	HZS S1 D1
		Time Compare Not Equal	JNE	JNE (<>) - S1 52			Convert Seconds to Time	S2H	S2H S1 D1

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





Pro-face has taken significant steps to meet increasingly stringent requirements for environmental preservation and has sought to comply with the RoHS Directive by adopting measures to eliminate specified harmful substances from existing products and products to be manufactured and sold beginning in 2006. For details, please refer to our web site or contact our sales office in your country



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#### **Conformity with International Safety Standards**

(I) (II) (II) (III) (III UL or c-UL Listing and Recognized Component Marks are your guarantees of compliance with safety standards accepted in countries and regions worldwide.



Caution: Before operating any of these products, 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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