6 Font

This chapter explains basic features of GP-Pro EX's "Font" and basic ways of placing text with each font.

Please start by reading "6.1 Font Types" (page 6-2) and then turn to the corresponding page.

6.1	Font Types	6-2
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6.5	Restrictions	6-20

6.1 Font Types

Defining Stroke Font and Standard Font	
These fonts are used normally. The stroke font can be freely enlarged without the text appearing pixelated. The standard font displays even small sized characters well. For example, Text in stroke font	Setup Procedure (page 6-12) Introduction (page 6-3)
"Japanese" ストロークフォント	
"English" stroke font	
"Chinese (Simplified)" unicode标准	
Image Font	
This font is used to draw in Windows fonts and can appear pixelated when enlarged.	Setting Procedure (page 6-16) Introduction (page 6-15)
"Arial/Italic" イメージフォント	
"Arial Black" Image Font	
"Helvetica/Bold" Image Font	

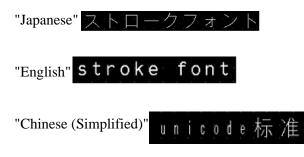
6.2 Defining Stroke Font and Standard Font

6.2.1 Introduction

These fonts are used normally.

The stroke font can be freely enlarged without the text appearing pixelated. The standard font displays even small sized characters well.

For example, Text in stroke font

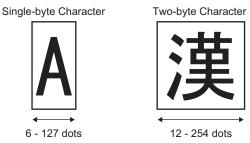


Text Feature

Stroke Font

• Can be freely enlarged and displays well.

This font can be freely enlarged within the range of 6 to 127 dots and displays well. The standard size is a single-byte character. Double-byte characters are fixed with the same size horizontally and vertically. However, with a vector font feature, small sized text cannot be displayed well.



Can be used for bold/outlines.

Standard Font

- Small sized text can also be displayed well. Small sized text also displays well if placed in full scale (original size), such as "8 X16 dots", "16 X 16 dots", or "32 X 32 dots". However, the scaling factor of enlargement/ reduction should be selected.
- Can be used for bold/shadows.

Font Types

Each display language corresponds to the following fonts. Font Type

Font Type	Display Language	Font Name				
Stroke Font	Japanese	Japanese Stroke Font				
	ASCII	Roman Character Stroke Font				
	Chinese (Simplified)	Chinese (Simplified) Stroke Font				
	Chinese (Traditional)	Chinese (Traditional) Stroke Font				
	Korean	Korean Stroke Font				
	Cyrillic ^{*1}	Cyrillic Stroke Font				
	Thai	Thai Stroke Font				
Standard Font	Japanese	Japanese Standard Font				
	ASCII	Standard Font for languages supported by ASCII character set				
	Chinese (Simplified)	Chinese (Simplified) Standard Font				
	Chinese (Traditional)	Chinese (Traditional) Standard Font				
	Korean	Korean Standard Font				

*1 Cyrillic letters are mainly used in Russian, Ukrainian, Bulgarian, Byelorussian, Serbian, Macedonian, Kazakh, Kirgiz, and Mongolian languages.

Add/Delete Font

Stroke font and standard font use the Font Area (4 MB). To use fonts other than Japanese Standard Font, ASCII Standard Font, and English Stroke Font, add and delete fonts. To add/delete fonts, from the [System Settings] menu, select [Font Settings].

System Settings 🛛 🗶 🗙 Display	Display Unit Series GP3000 Series Model AGP-3500T
Display	Orientation Landscape
Display Unit	Font
Logic Programs	Font Used in Project
<u>Video/Movie</u>	Japanese Standard Font
Font	English Standard Font English Stroke Font User Screen Area
Peripheral Settings	Chinese(Traditional) Standard Font Chinese(Simplified) Standard Font
Peripheral List	Corean Stanard Font
Device/PLC	
Printer	Chinese(Simplified) Stroke Font
Input Equipment Settings	*The selected font will be transferred to
Script I/O Settings	the main unit.
<u>I/O Driver</u>	
FTP Server	
Modem	
Video Modules	

To add Chinese (Simplified) Stroke Font, in the [Font Used in Project] box, select [Chinese (Simplified) Stroke Font]. 427KB of 4MB of the Font Area is used for Chinese (Simplified) Stroke Font. For more information on adding fonts, see the Appendix.

IMPORTANT]	٠	Add only the fonts that are used in the project. Selecting unnecessary fonts
		stores the fonts on the GP. For example, on the AGP-3500T, if the font size
		exceeds the Font Area capacity of 8MB ^{*1} , the project then uses the User
		Screen Area, thereby reducing the capacity of user applications.

*1 The User Screen Area's capacity depends on the GP model.

"1.3 List of Supported Functions by Device" (page 1-5)

• Japanese Standard Font, ASCII Standard Font, and English Stroke Font are fixed. These fonts are automatically transferred to the GP with little load on the Font Area (4 MB) and can be used without considering the font size.

Compatible Character Codes

To display characters in the Data Display (Text Display) on the device/PLC, use the following character codes, depending on the display language set for the data display.

Data Display Part's Display Language Display Language	Corresponding Text Code	Remarks
Japanese	Shift JIS Code	
ASCII	Code Page 850 Code Page 1250 Code Page 1252 Code Page 1254 Code Page 1257	 MPORTANT The ASCII Standard Font only corresponds to Code Page 850. Before using the English Stroke Font, be sure to refer to the following text list. " ASCII Stroke Font Dedicated Text List" (page 6-7)
Chinese (Simplified)	GB 2312	
Chinese (Traditional)	BIG5	
Korean	KS C 5601	
Cyrillic	Code Page1251	
Thai	Code Page 874	

■ ASCII Stroke Font Dedicated Text List

If you are using Stroke Fonts for languages supported by the ASCII character set, only the black letters in the following list can be displayed in the Data Display (Text Display). Under the black letter, the Code Page 850's hexadecimal character code number is displayed.

• The red characters cannot be displayed on a Data Display Part (Text Display).





■ Character List of Stroke Fonts Exclusive to Cyrillic

The following characters are supported as Cyrillic.

The Character Code is displayed under each letter. The first code is Native code and the second is Unicode.

	!	"	#	\$	%	&		()	*	+		_		
0x20	0x21	0x22	0x23	0x24	0x25	0x26	0x27	0x28	0x29	0x2A	0x2B	0x2C	0x2D	0x2E	0x2F
0x0020	0x0021	0x0022	0x0023	0x0024	0x0025	0x0026	0x0027	0x0028	0x0029	0x002A	0x002B	0x002C	0x002D	0x002E	0x002F
0	1	2	3	4	5	6	7	8	9	:	-	<	=	>	?
0x30	0x31	0x32	0x33	0x34	0x35	0x36	0x37	0x38	0x39	0x3A	0x3B	0x3C	0x3D	0x3E	0x3F
0x0030	0x0031	0x0032	0x0033	0x0034	0x0035	0x0036	0x0037	0x0038	0x0039	0x003A	0x003B	0x003C	0x003D	0x003E	0x003F
@	Α	В	С	D	Ε	F	G	Н	Ι	J	Κ	L	М	Ν	0
0x40	0x41	0x42	0x43	0x44	0x45	0x46	0x47	0x48	0x49	0x4A	0x4B	0x4C	0x4D	0x4E	0x4F
0x0040	0x0041		0x0043								0x004B		0x004D	0x004E	0x004F
Ρ	Q	R	S	Т	U	V	W	Х	Y	Ζ		¥			
0x50	0x51	0x52	0x53	0x54	0x55	0x56	0x57	0x58	0x59	0x5A	0x5B	0x5C	0x5D	0x5E	0x5F
0x0050	0x0051	0x0052	0x0053	0x0054	0x0055		0x0057		0x0059	0x005A	-	0x005C	0x005D	0x005E	0x005F
	а	b	C	d	е	f	g	h	i	j	k		m	n	0
0x60	0x61	0x62	0x63	0x64	0x65	0x66	0x67	0x68	0x69	0x6A	0x6B	0x6C	0x6D	0x6E	0x6F
0x0060	0x0061	0x0062	0x0063		0x0065	0x0066	0x0067	0x0068	0x0069	0x006A	0x006B	0x006C	0x006D	0x006E	0x006F
р	a	r	S	t	u	V	W	Х	V	Ζ			- }		
0x70	0x71	0x72	0x73	0x74	0x75	0x76	0x77	0x78	0x79	0x7A	0x7B	0x7C	0x7D	0x7E	0x7F
0x0070	0x0071	0x0072	0x0073	0x0074	0x0075	0x0076		0x0078	0x0079	0x007A	0x007B	0x007C	0x007D	0x007E	0x007F
Б	ŕ	_	ŕ			+	+		‰	Jb	<	Ь	Ŕ	ħ	Ш
0x80	0x81	, 0x82	0x83	" 0x84	0x85	0x86	0x87	0x88	0x89	0x8A	0x8B	0x8C	0x8D	0x8E	0x8F
															0x040F
ħ	6	,	""	"		-	_		тм	Jb	>	њ	Ќ	ħ	Ų
0x90	0x91	0x92	0x93	0x94	0x95	0x96	0x97	0x98	0x99	0x9A	0x9B	0x9C	0x9D	0x9E	0x9F
0x0452	0x2018	0x2019	0x201C	0x201D	0x2022	0x2013	0x2014		0x2122	0x0459	0x203A	0x045A	0x045C	0x045B	0x045F
	Ў	ў	J	a	Г		§	Ë	\bigcirc	З	«	٦	R	Ϊ	
0xA0			-												
	0xA1	0xA2	0xA3	0xA4	0xA5	0xA6	0xA7	0xA8	0xA9	0xAA	0xAB	0xAC	0xAD	0xAE	0xAF
								0x0401				0xAC 0x00AC			
0	0x040E	0x045E	0×0408	0x00A4	0x0490 µ	0×00A6	0x00A7	0x0401 ë	0x00A9 No.	0×0404 E	0×00AB	0×00AC j	0×00AD S	0x00AE S	0x0407 Ï
о 0xB0	0x040E <u>+</u> 0xB1	0x045E 0xB2	0x0408 i 0xB3	0x00A4 Ґ 0xB4	0x0490 µ 0xB5	0x00A6 ¶ 0xB6	0x00A7 • 0xB7	0x0401 ë 0xB8	0x00A9 No. 0xB9	0x0404 E 0xBA	0x00AB	0x00AC j 0xBC	0x00AD S 0xBD	0x00AE S 0xBE	0x0407 i 0xBF
о 0xB0	0x040E <u>+</u> 0xB1	0x045E 0xB2 0x0406	0x0408 i 0xB3	0x00A4 Ґ 0xB4	0x0490 µ 0xB5	0x00A6 ¶ 0xB6 0x00B6	0x00A7 • 0xB7 0x00B7	0x0401 ë 0xB8	0x00A9 No. 0xB9 0x2116	0x0404 E 0xBA	0x00AB	0x00AC j 0xBC 0x0458	0x00AD S 0xBD	0x00AE S 0xBE	0x0407 i 0xBF
о 0xB0 0x00B0 А	0x040E + 0xB1 0x00B1 5	0x045E 0xB2 0x0406 B	0x0408 i 0xB3 0x0456	0x00A4 Г 0xB4 0x0491 Д	0x0490 µ 0xB5 0x00B5 E	0x00A6 ¶ 0xB6 0x00B6 Ж	0x00A7 • 0xB7 0x00B7 3	0x0401 ë 0xB8 0x0451 N	0x00A9 No. 0xB9 0x2116 Ĭ	0x0404 E 0xBA 0x0454 K	0×00AB 0×BB 0×00BB	0x00AC j 0xBC 0x0458	0x00AD S 0xBD 0x0405 H	0x00AE S 0xBE 0x0455 O	0×0407 i 0×BF 0×0457 n
о 0xB0 0x00B0 А 0xC0	0x040E 0xB1 0x00B1 0x00B1 0xC1	0x045E 0xB2 0x0406 B 0xC2	0x0408 i 0xB3 0x0456 C 0xC3	0x00A4 r 0xB4 0x0491 Д 0xC4	0x0490 µ 0xB5 0x00B5 E 0xC5	0x00A6 ¶ 0xB6 0x00B6 0x00B6 ₩ 0xC6	0x00A7 • 0xB7 0x00B7 3 0xC7	0x0401 0xB8 0x0451 0xC8	0x00A9 No. 0xB9 0x2116 Ŭ 0xC9	0x0404 E 0xBA 0x0454 K 0xCA	0x00AB 0xBB 0x00BB 0x00BB 0xCB	0x00AC j 0xBC 0x0458 M 0xCC	0x00AD S 0xBD 0x0405 H 0xCD	0x00AE S 0xBE 0x0455 O 0xCE	0x0407 i 0xBF 0x0457 0xCF
о 0xB0 0x00B0 А	0x040E 0xB1 0x00B1 0x00B1 0xC1	0x045E 0xB2 0x0406 B 0xC2	0x0408 i 0xB3 0x0456 C 0xC3 0x0413	0x00A4 r 0xB4 0x0491 J 0xC4 0xC4	0x0490 µ 0xB5 0x00B5 E 0xC5 0x0415	0x00A6 ¶ 0xB6 0x00B6 0x00B6 ₩ 0xC6	0x00A7 • 0xB7 0x00B7 3 0xC7	0x0401 0xB8 0x0451 0xC8	0x00A9 No. 0xB9 0x2116 Ŭ 0xC9	0x0404 E 0xBA 0x0454 K 0xCA	0x00AB 0xBB 0x00BB 0x00BB 0xCB	0x00AC j 0xBC 0x0458 M 0xCC	0x00AD S 0xBD 0x0405 H 0xCD 0xCD 0x041D	0x00AE S 0xBE 0x0455 Ox0455 0xCE 0x041E	0x0407 i 0xBF 0x0457 0xCF 0x041F
о 0x80 0x0080 А 0xC0 0x0410 Р	0x040E 0xB1 0x00B1 0xC1 0xC1 0x0411 C	0x045E 0xB2 0x0406 B 0xC2 0x0412 T	0x0408 i 0xB3 0x0456 C 0xC3 0x0413 y	0x00A4 Г 0xB4 0x0491 Д 0xC4 0x0414 Ф	0x0490 µ 0xB5 0x00B5 E 0xC5 0x0415 X	0x00A6 ¶ 0xB6 0x00B6 0x00B6 0x0416 U	0x00A7 0xB7 0x00B7 3 0xC7 0x0417 Y	0x0401 0xB8 0x0451 0xC8 0x0418 0x0418	0x00A9 No. 0xB9 0x2116 X 0xC9 0x0419 X	0x0404 E 0xBA 0x0454 K 0xCA 0x041A D	0x00AB 0xBB 0x00BB 0x00BB 0x00BB 0x041B 0x041B	0x00AC j 0xBC 0x0458 M 0xCC 0x041C b	0x00AD S 0xBD 0x0405 H 0xCD 0x041D Ox041D	0x00AE S 0xBE 0x0455 O 0xCE 0x041E HO	0x0407 i 0xBF 0x0457 0xCF 0x041F Я
о 0xB0 0x00B0 А 0xC0 0x0410 Р 0xD0	0x040E 0xB1 0x00B1 0x00B1 0xC1 0xC1 0x0411 0xD1	0x045E 0xB2 0x0406 B 0xC2 0x0412 T 0xD2	0x0408 i 0xB3 0x0456 C 0xC3 0x0413 y 0xD3	0x00A4 r 0xB4 0x0491 D 0xC4 0x0414 D 0xD4	0x0490 µ 0xB5 0x00B5 0x05 0x0415 X 0xD5	$\begin{array}{c} 0 \times 00A6 \\ \blacksquare \\ 0 \times B6 \\ 0 \times 00B6 \\ \hline \\ 0 \times 00B6 \\ \hline \\ 0 \times 06 \\ \hline \\ 0 \times D6 \\ \hline \end{array}$	0x00A7 0xB7 0x00B7 0x00B7 0xC7 0xC7 0x0417 U 0xD7	0x0401 0xB8 0x0451 0xC8 0xC8 0x0418 0x0418 0xD8	0x00A9 No. 0xB9 0x2116 X 0xC9 0x0419 U 0xD9	0x0404 E 0xBA 0x0454 K 0xCA 0x041A D 0xDA	0x00AB 0xBB 0x00BB 0x00BB 0x00BB 0x041B 0x041B 0xDB	0x00AC j 0xBC 0x0458 0x0458 0xCC 0x041C b 0xDC	0x00AD 0xBD 0x0405 H 0xCD 0x041D 0x041D 0xDD	0x00AE S 0xBE 0x0455 Ox0455 0xCE 0x041E HO 0xDE	0x0407 i 0xBF 0x0457 0xCF 0x041F 9 0xDF
о 0xB0 0x00B0 А 0xC0 0x0410 Р 0xD0	0x040E 0xB1 0x00B1 0x00B1 0x011 0x0411 0x0411 0x0421 0x012 0x012	0x045E 0xB2 0x0406 B 0xC2 0x0412 T 0xD2	0x0408 i 0xB3 0x0456 C 0xC3 0x0413 y 0xD3	0x00A4 r 0xB4 0x0491 D 0xC4 0x0414 D 0xD4	0x0490 µ 0xB5 0x00B5 0x05 0x0415 X 0xD5	$\begin{array}{c} 0 \times 00A6 \\ \blacksquare \\ 0 \times B6 \\ 0 \times 00B6 \\ \hline \\ 0 \times 00B6 \\ \hline \\ 0 \times 06 \\ \hline \\ 0 \times D6 \\ \hline \end{array}$	0x00A7 • 0xB7 0x00B7 0x00B7 0x07 0x0417 U 0xD7 0x0427	0x0401 0xB8 0x0451 0xC8 0xC8 0x0418 0x0418 0xD8	0x00A9 No. 0xB9 0x2116 X 0xC9 0x0419 U 0xD9 0x0429 0x0429	0x0404 E 0xBA 0x0454 K 0xCA 0x041A D 0xDA	0x00AB 0xBB 0x00BB 0x00BB 0x00BB 0x041B 0x041B 0xDB	0x00AC j 0xBC 0x0458 0x0458 0xCC 0x041C b 0xDC	0x00AD 0xBD 0x0405 H 0xCD 0x041D 0x041D 0xDD	0x00AE S 0xBE 0x0455 Ox0455 0xCE 0x041E HO 0xDE	0x0407 i 0xBF 0x0457 0xCF 0x041F Я
o 0xB0 0x00B0 0x00 0x0410 P 0xD0 0x0420 a	0x040E 	0x045E 0xB2 0x0406 0xC2 0x0412 T 0xD2 0x0422 B	0x0408 i 0xB3 0x0456 C 0xC3 0x0413 y 0xD3 0x0423 C	0x00A4 Г 0xB4 0x0491 Д 0xC4 0x0414 Ф 0xD4 0x0424 Д	0x0490 µ 0xB5 0x00B5 0x005 0x0415 X 0xD5 0x0425 Qx0425 Qx0425		0x00A7 · 0xB7 0x00B7 0x007 0x0417 U 0xD7 0x0427 3	0x0401 ÖxB8 0x0451 0xC8 0xC8 0x0418 0x0428 0x0428 N	0x00A9 NO. 0xB9 0x2116 0xC9 0x0419 0x0429 0x0429 Ň	0x0404 E 0xBA 0x0454 0xCA 0x041A 0x042A 0x0A 0x042A K	0x00AB 0xBB 0x00BB 0x00BB 0x041B 0x041B 0x0B 0x042B 0x042B	0x00AC j 0xBC 0x0458 M 0xCC 0x041C b 0xDC 0x042C M	$\begin{array}{c} 0 \times 00 \text{AD} \\ \textbf{S} \\ 0 \times \text{BD} \\ 0 \times 0405 \\ \textbf{H} \\ 0 \times 0410 \\ \textbf{O} \times 0410 \\ \textbf{O} \\ \textbf{O} \times 0420 \\ \textbf{H} \end{array}$	0x00AE S 0xBE 0x0455 O 0xCE 0x041E 0x042E 0x042E O	0x0407 i 0xBF 0x0457 0xCF 0x041F 0x041F 9 0xDF 0x042F П
о 0xB0 0x00B0 0x00B0 0x0410 0x0410 0x00 0x0420 0x0420 0xE0	0x040E 	0x045E 0xB2 0x0406 B 0xC2 0x0412 T 0xD2 0x0422 B 0xE2	0x0408 i 0xB3 0x0456 C 0xC3 0x0413 y 0xD3 0x0423 C 0xE3	0x00A4 r 0xB4 0x0491 0xC4 0x0414 0x0414 0xD4 0xD4 0x0424 Д 0xE4	0x0490 µ 0xB5 0x00B5 0x00B5 0x0415 0x0415 0x0425 0x0425 0xE5	$\begin{array}{c} 0 \times 00A6 \\ \P \\ 0 \times B6 \\ 0 \times 00B6 \\ \hline \\ 0 \times 0416 \\ 0 \times 0426 \\ \hline \\ 0 \times 0426 \\ \hline \\ 0 \times E6 \end{array}$	0x00A7 0xB7 0x00B7 0x00B7 0x0417 0x0417 0x0427 0x0427 3 0xE7	0x0401 \ddot{e} 0xB8 0x0451 V 0xC8 0x0418 U 0xD8 0xD8 0x0428 N 0xE8	0x00A9 No. 0xB9 0x2116 X 0xC9 0x0419 U 0xD9 0x0429 X 0xE9	0x0404 E 0xBA 0x0454 K 0xCA 0x041A 0xDA 0xDA 0x042A K 0xEA	0x00AB 0xBB 0x00BB 0x00BB 0x041B 0x041B 0xDB 0x042B Л 0xEB	0x00AC j 0xBC 0x0458 M 0xCC 0x041C 0x042C 0x042C M 0xEC	0x00AD S 0xBD 0x0405 H 0xCD 0x041D 0x042D 0xDD 0x042D H 0xED	0x00AE S 0xBE 0x0455 O 0xCE 0x041E O 0xDE 0xDE 0x042E O 0xEE	0x0407 i 0xBF 0x0457 0xCF 0x041F 9 0xDF 0x042F 0x042F 0xEF
о 0xB0 0x00B0 0x00B0 0x0410 0x0410 0x00 0x0420 0x0420 0xE0	0x040E 	0x045E 0xB2 0x0406 B 0xC2 0x0412 T 0xD2 0x0422 B 0xE2	0x0408 i 0xB3 0x0456 C 0xC3 0x0413 y 0xD3 0x0423 C 0xE3	0x00A4 r 0xB4 0x0491 0xC4 0x0414 0x0414 0xD4 0xD4 0xD4 0xD4 0xC4 0x0424 A 0xE4 0xC4	0x0490 µ 0xB5 0x00B5 0x00B5 0x0415 0x0415 0x0425 0x0425 0xE5	$\begin{array}{c} 0 \times 00A6 \\ \P \\ 0 \times B6 \\ 0 \times 00B6 \\ \hline \\ 0 \times 0416 \\ 0 \times 0426 \\ \hline \\ 0 \times 0426 \\ \hline \\ 0 \times E6 \end{array}$	0x00A7 0xB7 0x00B7 0x00B7 0x0417 0x0417 0x0427 0x0427 3 0xE7	0x0401 \ddot{e} 0xB8 0x0451 V 0xC8 0x0418 U 0xD8 0xD8 0x0428 N 0xE8	0x00A9 No. 0xB9 0x2116 X 0xC9 0x0419 U 0xD9 0x0429 X 0xE9	0x0404 E 0xBA 0x0454 K 0xCA 0x041A 0xDA 0xDA 0x042A K 0xEA	0x00AB 0xBB 0x00BB 0x00BB 0x041B 0x041B 0xDB 0x042B Л 0xEB	0x00AC j 0xBC 0x0458 M 0xCC 0x041C 0x042C 0x042C M 0xEC	0x00AD S 0xBD 0x0405 H 0xCD 0x041D 0x042D 0xDD 0x042D H 0xED	0x00AE S 0xBE 0x0455 O 0xCE 0x041E O 0xDE 0xDE 0x042E O 0xEE	0x0407 i 0xBF 0x0457 0xCF 0x041F 0x041F 9 0xDF 0x042F П
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о 0xB0 0x00B0 А 0xC0 0x0410 0x0410 0x0420 0x0420 0x0420 0x0420 0x0420 0x0420 0x0420 0x0420 0x00420 0x00420 0x00420 0x00420 0x00420 0x00420 0x00420 0x00420 0x00420 0x00420 0x00420 0x00400 0x00400 0x0040 0x000 0x0040 0x0000 0x000 0x000 0x000 0x000 0x000 0x000 0x000 0x000	0x040E 	0x045E 0xB2 0x0406 B 0xC2 0x0412 T 0xD2 0x0422 B 0xE2 0x0432 T 0xF2	0x0408 i 0xB3 0x0456 C 0xC3 0x0413 y 0xD3 0x0423 C 0xE3 0x0433 y 0xF3	0x00A4 r 0xB4 0x0491 0xC4 0x0414 0x0414 0x0424 0x0424 A 0x0424 A 0x0434 0xF4	0x0490 µ 0xB5 0x00B5 0xC5 0x0415 0x0425 0x0425 0x0425 0x0435 X 0xF5	$ \begin{array}{c} 0 \times 00A6 \\ \blacksquare \\ 0 \times 086 \\ 0 \times 00B6 \\ \hline \\ 0 \times 00B6 \\ 0 \times 0416 \\ \hline \\ 0 \times 0426 \\ 0 \times 0426 \\ \hline \\ 0 \times 0 \\ \hline 0 \times 0 \\ \hline 0 \times 0 \\ \hline 0 \\ 0 \\ 0 \hline \hline 0 \\ 0 \hline 0 $	0x00A7 0xB7 0x0B7 0x00B7 0x00B7 0x0417 U 0xD7 0x0427 0x0427 3 0xE7 0x0437 U 0xF7	0x0401 \ddot{e} 0xB8 0x0451 0xC8 0xC8 0x0418 0x0428 0x0428 0xE8 0x0438 0xE8 0x0438 0xE8 0x0438 0x58	0x00A9 0xB9 0x2116 0xC9 0xC9 0x0419 0x0429 0x0429 0x0429 0x0439 U 0xF9 0xF9	0x0404 E 0xBA 0x0454 K 0xCA 0x041A 0x041A 0x042A 0x042A K 0x043A C 0xEA 0xFA 0xFA	0x00AB 0xBB 0x00BB 0xCB 0xCB 0x041B 0x042B 0x042B 0x042B 0x042B 0x042B 0x043B 0xEB 0xFB	0x00AC j 0xBC 0x0458 M 0xCC 0x041C 0x042C 0x0458 0x04	0x00AD 0xBD 0x0405 H 0xCD 0x041D 0x041D 0x042D 0x042D 0x042D 0x042D 0x042D 0x042D 0x042D 0x042D 0x0405 H 0x0405 0x042D 0x0405 0x045 0x05 0x	0x00AE 0xBE 0x0455 0xCE 0x041E 0x041E 0x042E 0x042E 0x042E 0x043E 0x043E 0xFE	0x0407 i 0xBF 0x0457 0xCF 0x041F 0x041F 0x042F 0x042F 0x043F 0xEF 0x043F R 0xFF

■ Character List of Stroke Fonts Exclusive to Thai

The following characters are supported as Thai.

The Character Code is displayed under each letter. The first code is Native code and the second is Unicode.

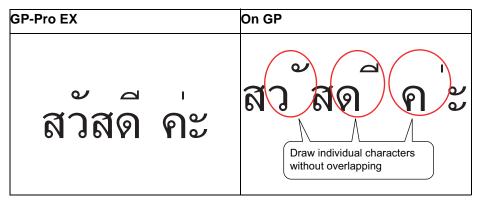
• The red characters cannot be displayed on a Data Display Part (Text Display).

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	!		#	\$	%	&				*	+	,	-	•	/
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				_		-				UXUUZA	UXUUZD	1	UXUUZD	UXUUZE	
0	1	2	3	4	5	6	7	8	9	:	,		=		?
0x30	0x31	0x32	0x33	0x34	0x35	0x36	0x37	0x38	0x39	0x3A	0x3B	0x3C	0x3D	0x3E	0x3F
-			-	0x0034			-		_	_		0x003C			
@	A	В	C	D	E	F	G	Н	I	J	K	L	M	N	Ο
0x40	0x41 0x0041	0x42	0x43	0x44 0x0044	0x45	0x46	0x47	0x48	0x49	0x4A	0x4B	0x4C	0x4D	0x4E	0x4F
	-				0x0045	0x0046			0x0049		0x004B		0x004D	0x004E	0x004F
P	Q	R	S	T	U	V	W	Х	Υ	Z	L	¥			_
0x50	0x51	0x52	0x53	0x54	0x55	0x56	0x57	0x58	0x59	0x5A	0x5B	0x5C	0x5D	0x5E	0x5F
0x0050	0x0051		0x0053	0x0054	0x0055		0x0057		0x0059	0x005A		0x005C	0x005D	0x005E	0x005F
	а	b	С	d	е	f	g	h	1	J	k		m	n	0
0×60	0x61	0x62	0x63	0×64	0x65	0x66	0x67	0x68	0x69	0x6A	0x6B	0x6C	0x6D	0x6E	0x6F
0×0060	0x0061	0x0062	0x0063	0x0064	0x0065	0x0066	0x0067	0x0068	0x0069	0x006A	0x006B	0x006C	0x006D	0x006E	0x006F
p	q	r	S	l t	u	V	W	Х	У	Z	{		}		
0x70	0x71	0x72	0x73	0x74	0x75	0x76	0x77	0x78	0x79	0x7A	0x7B	0x7C	0x7D	0x7E	0x7F
0x0070	0x0071	0x0072	0x0073	0x0074	0x0075	0x0076	0x0077	0x0078	0x0079	0x007A	0x007B	0x007C	0x007D	0x007E	0×007F
					• • •										
0x80	0x81	0x82	0x83	0x84	0x85	0x86	0x87	0x88	0x89	0x8A	0x8B	0x8C	0x8D	0x8E	0x8F
0x20AC					0x2026										
	4	,	66	77	•	—	—								
0×90	0x91	0x92	0x93	0x94	0x95	0x96	0x97	0x98	0x99	0x9A	0x9B	0x9C	0x9D	0x9E	0x9F
	0x2018	0x2019	0x201C	0x201D	0x2022	0x2013	0x2014								
	ก	ข	ๆ	ิค	ฅ	ฆ	4	ຈ	ฉ	ช	ฑ	ณ	ณ	ฎ	ฏ
0xA0	0xA1	0xA2	0xA3	0xA4	0xA5	0xA6	0xA7	0xA8	0xA9	0xAA	0xAB	0xAC	0xAD	ୁ M 0xAE	ିଥ୍ୟ 0xAF
0x00A0	0x0E01	0x0E02	0x0E03	0x0E04	0x0E05	0x0E06	0x0E07	0x0E08	0x0E09	0x0E0A	0x0E0B	0x0E0C	0x0E0D	0x0E0E	0x0E0F
จ	ฑ	ଜ୍ୟ	ณ	୭	ଡ଼	ຄ	ท	ธ	ิน	าเ	ป	ผ	ฝ	พ	พ
0xB0	0xB1	0xB2	0xB3	0xB4	0xB5	0xB6	0xB7	0xB8	0xB9	0xBA	0xBB	0xBC	0xBD	0xBE	0xBF
0x0E10	0x0E11	0x0E12	0x0E13	0x0E14	0x0E15	0x0E16	0x0E17	0x0E18	0x0E19	0x0E1A	0x0E1B	0x0E1C	0x0E1D	0x0E1E	0x0E1F
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0x0E20	0x0E21	0x0E22		0x0E24				0x0E28	0x0E29	0x0E2A	0x0E2B	0x0E2C	0x0E2D	0x0E2E	0x0E2F
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0xD0	0xD1	0xD2	0xD3	0xD4	0xD5	0xD6	0xD7	0xD8	0xD9	0xDA	0xDB	0xDC	0xDD	0xDE	0xDF
0x0E30	0x0E31	0x0E32	0x0E33	0x0E34	0x0E35		0x0E37	0x0E38		0x0E3A					0x0E3F
l	ւլ	ົ	ູ	٦	່ງ	ໆ	ຶ່	I	لا	ຄ	+	6	0	ε	0
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0xF0	0xF1	0xF2	0xF3	0xF4	0xF5	0xF6	0xF7	0xF8	0xF9	0xFA	0xFB	0xFC	0xFD	0xFE	0xFF
UXUE50	UXUE51	UXUE52	UXUE53	0x0E54	UXUE55	UXUE56	UXUE5/	UXUE58	UXUE59						

NOTE

• Thai has many letters which are made up with multiple Unicodes (superimposed characters). However, GP recognizes each Unicode as one letter. As a result, letters drawn on GP-Pro EX may look different on GP.

For example, "Hello"



• You cannot use key parts for Thai, superimposed characters.

6.2.2 Setup Procedure

NOTE	 Japanese Standard Font, ASCII Standard Font, and English Stroke Font are fixed. You do not have to add or delete these fonts as in steps 1-4 below. Please refer to the settings guide for details. * "9.12.1 Text Settings Guide" (page 9-77)
	• For more information about text, please refer to "9.3 Writing Text" (page 9-23).

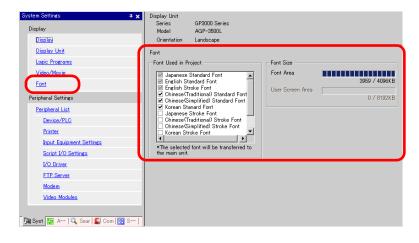
These fonts are used normally.

The stroke font can be freely enlarged without the text appearing pixelated. The standard font displays even small sized characters well.

For example, Text in stroke font

"Chinese (Simplified)" 设定输入画面

1 From the [System Settings] menu, select [Font Settings]. The following dialog box appears.



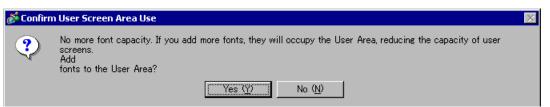
NOTE

• If the [System Settings] tab is not displayed, from the [View (V)] menu, point to [Work Space (W)] and select [System Settings (S)].

2 From [Font Used in Project], select the [Chinese (Simplified) Stroke Font] check box.



3 The following message appears.



Click [Yes]. You can confirm that the User Screen Area is also used.

Font Used in Project	-Font Size		
	Font Area User Screen Area	3959 / 4096КВ 427 / 8192КВ	The font data is also saved in the area where the screen data is saved.
The selected font will be transferred to the main unit.			

Click [No]. The font addition is canceled.

4 Clear the check box for the fonts you are not using. This allows more free space in the Font Area.

Font		
Font Used in Project	-Font Size	
Japanese Standard Font	Font Area	
English Standard Font		427 / 4096KB
Chinese(Traditional) Standard Font	User Screen Area	0 / 6144KB
☐ Korean Stanard Font ☐ Japanese Stroke Font ☐ Chinese(Traditional) Stroke Font]
Chinese(Simplified) Stroke Font		
*The selected font will be transferred to the main unit.		

5 As an example, add text in Simplified Chinese to a screen. This example assumes you have enabled the Chinese (Simplified) font in your operating system. See the Appendix for more information. Place text in the drawing area then double-click to open the [Text] dialog box. In [Font Type], select [Stroke Font]. In [Display Language], select [Chinese (Simplified)]. In the text box, enter the text using pin yin. Then click [OK] to close the dialog box.

		(Setting			
	定输入画面	▲ Text Ab c E 重 重 Line Spacing ① ● ① 使定输入画 mian_	Direction Color Text Color Background Color	Horizontal	Image: Second
NOTE	 When you select th Language], the foll font type since a sv Confirm Font Type Additional Systems 	owing dialog b vitch has been	ox may ap	pear. This c	onfirms to add th
	To add the font, click If you click [No], add properly displayed or	∑ No W [Yes]. ling the font is			text cannot be

6.3 Image Font

6.3.1 Introduction

This font is used to draw with a Windows font and can appear pixelated when enlarged. You can use bold and italics as well as the standard style.



• You can select this font only when [Direct Text] is set in the partis label/text.

Text Feature

• You can display characters with various Windows fonts. Displays a Windows font as a bitmap.

For: "Arial/Italic"

• Text displays well regardless of enlargement/reduction or the text size. For example, if the placement size is enlarged by increasing the number of characters in the text, the text is displayed with the set font and text size.



- Can be used for bold/italics.
- Using too much of this font restricts the User Screen Area capacity. The image font uses the User Screen Area.

Taking a lot of memory by using larger character sizes or more characters may cause restrictions to create a screen. From the [Project (F)] menu, verify [Information (I)] - [Project Information (I)] - [Send Data] - [Send Size] to make sure not use too many Image Fonts.

NOTE

• The User Screen Area's capacity depends on the GP model. ** "1.3 List of Supported Functions by Device" (page 1-5)

6.3.2 Setup Procedure

NOTE

Please refer to the settings guide for details.
 "9.12.1 Text Settings Guide" (page 9-77)

Use the "Image Font". You can use bold and italics as well as the standard style. "Arial/Italic"



1 From the [Draw (D)] menu, select [Text (S)] or click A from the toolbar. Click on the base screen and drag to the desired size. Right-click to release the draw mode.

-	-

2 Double-click the new text. The following dialog box appears.

💕 Text					×
	Direct Text	C Text Table	9		
	Font				
	Font Type	Standard Font	•	Text Size	16 x 56 Pixel
ABC	Display Language	ASCI	•	Text Attribute	Normal 💌
1 20 4	Direction	Horizontal	•	🗖 Alignment	
	-Color				
	Text Color	7	¥	Blink Non	e 🔻
	Background Color	Transparent	•	Blink Non	e 🔻
Line Spacing	Shadow Color	1	Ŧ	Blink Non	e 🔻
Text					
					_
				OK (<u>O</u>)	Cancel

3 In [Font Type], select [Image Font].

💰 Text				×
	Oirect Text	🔿 Text Table		
	-Font			
	Font Type	Image Font 💌)	
ABC	Select Font	Microsoft San••••		
	Compress		🗖 Alignment	
	Color			
	Text Color	7	Blink None	•
	Background Color	Transparent 🗨	Blink None	7
Line Spacing				
Text				
			OK (<u>O</u>)	Cancel

4 Click the [Select Font] button to display the setting dialog box.

Select Font	Microsoft S	an∙∙≉	Click here.

5 Set the [Font], [Font Style] and [Size], then click [OK].

<u>F</u> ont:	Font style:	<u>S</u> ize:	
Arial	Italic	14	OK
Arial Arial Black	Regular Italic		Canc
O Arial Narrow O Bold Italic Art	Bold Italic	18 20 22	
O Book Antiqua O Bookman Old Style		22 24 26	
0 Bookshelf Symbol 7		126	
	Sample		
	AaBb	YyZz	
	1	·	
	Sogipt:		
	Western	•	

NOTE

If you use vertical text, select a font for vertical text (beginning with @ "For example, @MS Gothic") for the font.

6 Select the [Compress] check box. The font file size is compressed to about half the size, depending on characters.

💰 Text					×
	Direct Text Font	O Text Table			
ABC	Font Type Select Font	Image Font 🔹 HG創英角ポッ… 🛄			
	Compress		🗖 Alignme	ent	
	Color Text Color	7		None 💌	-
E E E E	Background Color	Transparent 👤	Blink	None	1
Text					
			OK (<u>©</u>	Cancel

• [Compress] is recommended for reducing the project file volume.

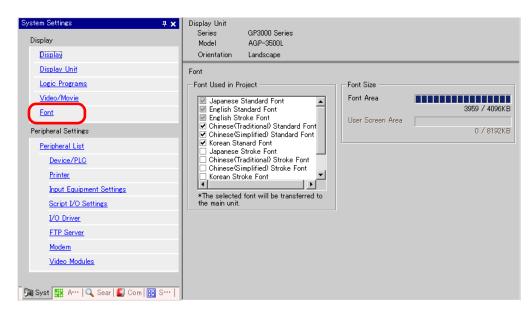
7 Select the colors you want and input text in the Input Text border.

Color				
Text Color	7 💌	Blink	None 💌	
Background Color	Transparent 💌	Blink	None 💌	
	Text Color	Text Color	Text Color 7 Blink	Text Color

8 Click [OK] and the setting are completed.



6.4 [Font] Settings Guide



Setting	Description
Font	Configure font settings.
Font Used in Project	 Select the fonts used in project files. NOTE Japanese Standard Font, ASCII Standard Font, and English Stroke Font are fixed.
Font Size	Displays the memory size of the font.
Font Area	 Displays the memory size in the font area from 0/4096K bite to 4096/4096K. When the font size exceeds the font area, it uses the user screen area. NOTE GP-32**Series cannot be used in the font area. When using a font other than [Japanese Standard Font], [ACSII Standard Font] and [English Stroke Font], it uses the user screen area.
User Screen Area	Displays the memory size of the font used in the user screen area. The capacity of the user screen varies among GP models. "" "1.3 List of Supported Functions by Device" (page 1-5)

6.5 Restrictions

6.5.1 Restrictions for Standard Font

- When [ASCII] is selected for the [Standard Font] [Display Language], select a text size from the three fixed sizes [6 x 10 dot], [8 x 13 dot], and [13 x 23 dot].
- When the [Character Size] is [6 x 10 dot] fixed size, you cannot select [Bold] from the [Text Attribute].
- When you display the text registered in a text table on a part with a [Fixed Size], refer to the ASCII text table and select or add the partís text. Text on a table without ASCII language settings cannot be properly displayed on the GP.
- If you change the font type to [Standard Font] after the text has been entered as a [Stroke Font], the text may not be displayed on the GP.
- If you compare the display on GP-Pro EX and the GP main unit, there may be slight differences in the appearance of the standard font letters. This is caused by the fact that the standard font uses a Windows font and displays it in GP-Pro EX.
- GP-32**Series cannot be used in the font area. When using a font other than [Japanese Standard Font], [ACSII Standard Font] and [English Stroke Font], it uses the user screen area.
- If using several types of fonts, the user screen area is used for the font area excess. Therefore, the screen data capacity is decreased.

6.5.2 Restrictions for Image Font

• [Image Font] is a bitmap image. You cannot set the [Display Language], [Text Type], or Vertical Text (where the [Direction] is [Vertical].).