# 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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# 6.1 Font Types

Stroke Font, Standard Font	
These fonts are used normally. The stroke font can be freely enlarged. The standard font displays even small sized characters well. (e.g.) Text in stroke font	
"Japanese" ストロークフォント	Setup Procedure (page 6-12) Details (page 6-3)
"English" stroke font	
"Chinese (Simplified)" unicode 标 准	
Image Font	

This font is used to dra	aw in Windows fonts.	
"Arial/Italic"	Image Font	
"Arial Black"	Image Font	Setup Procedure (page 6-16) Details (page 6-15)
"Helvetica/Bold"	Image Font	

# 6.2 Stroke Font, Standard Font

### 6.2.1 Details

These fonts are used normally. The stroke font can be freely enlarged. The standard font displays even small sized characters well. (e.g.) Text in stroke font

"Japanese"	ストロークフォント
"English"	stroke font
"Chinese (Simplified)"	unicode标准

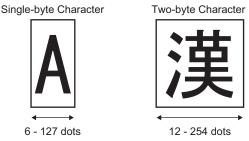
# Text Feature

# 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. Two-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 × 16 dots", "16 × 16 dots", or "32 × 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	Display Language	Font Name		
	Japanese	Japanese Stroke Font		
	ASCII	English Stroke Font		
	Chinese (Simplified)	Chinese (Simplified) Stroke Font		
Stroke Font	Chinese (Traditional)	Chinese (Traditional) Stroke Font		
	Korean	Korean Stroke Font		
	Cyrillic <sup>*1</sup>	Cyrillic Stroke Font		
	Thai	Thai Stroke Font		
	Japanese	Japanese Standard Font		
	ASCII	English Standard Font		
Standard Font	Chinese (Simplified)	Chinese (Simplified) Standard Font		
	Chinese (Traditional)	Chinese (Traditional) Standard Font		
	Korean	Korean Standard Font		

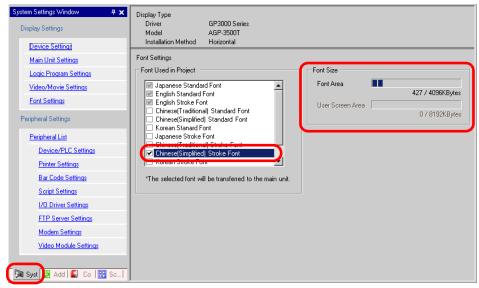
\*1 Cyrillic letters are mainly used in Russian, Ukrainian, Bulgarian, Belarusan, Serbian, Macedonian, Kazakhstan, Kirgiz, Mongolian languages.

## Add/Delete Font

Stroke font and standard font use the Font Area (4Mbytes).

To use fonts other than "Japanese Standard Font", "English Standard Font", and "English Stroke Font", add/delete fonts.

To add/delete fonts, select the [System Settings Window] menu - [Font Settings] command.



(e.g.) To add Chinese (Simplified) Stroke Font, if you select "Chinese (Simplified) Stroke Font" check box from [Font Used in Project], 427 Kbyte out of 4M bytes of Font Area will be used for Chinese (Simplified) Stroke Font.

• Add only the fonts to be used. If you select unnecessary fonts, the font size exceeds the Font Area's capacity (4MB), the User Screen Area (e.g.: "8MB for AGP-3500T<sup>\*1</sup>") will also be used, and the capacity for creating screens will be restricted.

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

- "1.3 List of Supported Functions by Device" (page 1-4)
- "Japanese Standard Font", "English Standard Font", and "English Stroke Font" are fixed. These fonts are automatically transferred to the GP with little load on the Font Area (4MB) and can be used without considering the font size.

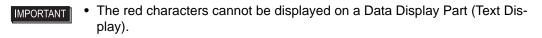
# Compatible Character Codes

When you want to command to display characters in the Data Display(Text Display) from the device (PLC), please use the following character codes depending on the display language set for the data display.

Data Display Part's Display Language	Corresponding Text Code	Remarks
Japanese	Shift JIS Code	
ASCII	Code Page850 Code Page1250 Code Page1252 Code Page1254 Code Page1257	<ul> <li>IMPORTANT</li> <li>The English Standard Font only corresponds to Code Page850.</li> <li>Before using the English Stroke Font, be sure to refer to the following text list.</li> <li>" Western Stroke Font Dedi- cated Text List" (page 6-7)</li> </ul>
Chinese (Simplified)	GB 2312	
Chinese (Traditional)	BIG5	
Korean	KS C 5601	
Cyrillic	Code Page1251	
Thai	Code Page874	

## Western Stroke Font Dedicated Text List

If you are using Western Stroke Fonts, only the black letters in the following list can be displayed in the data display (Text Display). Under the black letter, you will find the Code Page 850's hexadecimal character code number.







# ■ Cyrillic Stroke Font Only Character List

The following characters are supported as Cyrillic.

You can see the Character Code under each letter. The upper is Native code, and the lower is Unicode.

	I	"	#	\$	%	&		(	)	*	+		_		/
0x20	0x21	0x22	0x23	0x24	0x25	0x26	0x27	0x28	0x29	0x2A	0x2B	, 0x2C	0x2D	0x2E	0x2F
	0x0021		0x0023		0x0025										
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	Е	F	G	Н	Ι	J	K	L	Μ	Ν	0
0x40	0x41	0x42	0x43	0x44	0x45	0x46	0x47	0x48	0x49	0x4A	0x4B	0x4C	0x4D	0x4E	0x4F
0x0040	0x0041	0x0042	0x0043	0x0044	0x0045	0x0046	0x0047	0x0048	0x0049	0x004A	0x004B	0x004C	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		0x0053	0×0054	0x0055		0x0057		0x0059	0x005A		0x005C	0x005D	0x005E	0x005F
` 	а	b	С	d	е	f	g	<u>h</u>	i	j	k		m	n	0
0x60	0x61	0x62	0x63	0x64 0x0064	0x65	0x66	0x67	0x68	0x69	0x6A	0x6B	0x6C	0x6D	0x6E	0x6F
0x0060	0x0001	0x0062	0x0003		0x0065	0x0000	UXUU67	0x0008	0x0069	0X000A	UXUU0B	0x0060	10X000D	~	UXUU0F
р	q	r	S	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	0x007F
Ъ	ŕ	7	ŕ	77	•••	†	‡		‰	Jb	<	Њ	Ŕ	ħ	Ų
0x80	0x81	0x82	0x83	0x84	0x85	0x86	0x87	0x88	0x89	0x8A	0x8B	0x8C	0x8D	0x8E	0x8F
	0x0403	0x201A		0x201E	0x2026	0x2020	0x2021	0x20AC		0x0409	0x2039	0x040A		0x040B	0x040F
ħ	•	7	66	""	-	—	—		тм	Jb		њ	Ŕ	ħ	u
0x90	0x91	0x92	0x93	0x94	0x95	0x96	0x97	0x98	0x99	0x9A	0x9B	0x9C	0x9D	0x9E	0x9F
0x90	0x2018			0x94 0x201D			0x2014		0x2122	0x0459	0x203A		0x045C	0x9E	
0x90 0x0452	0x2018 <b>Ў</b>	0x2019 <b>Ў</b>	0x201C	0x201D	0x2022	0x2013	0x2014	Ë	0x2122 ©	0×0459	0x203A	0x045A	0x045C	0x9E 0x045B	0x045F
0×90 0×0452 0×A0	0x2018 <b>Ў</b> 0xA1	0x2019 <b>Ў</b> 0xA2	0x201C J 0xA3	0x201D	0×2022 <b>Г</b> 0×A5	0x2013       0xA6	0x2014 <b>§</b> 0xA7	Ë <sub>0xA8</sub>	0x2122 © 0xA9	0x0459 <b>E</b> 0xAA	0x203A 《 0xAB	0x045A 0xAC	0x045C (R) 0xAD	0x9E 0x045B <b>İ</b> 0xAE	0x045F 0xAF
0x90 0x0452 0xA0 0xA0	0x2018 <b>Ў</b> 0xA1 0x040E	0x2019 <b>Ў</b> 0xA2	0x201C J 0xA3	0x201D 0xA4 0x00A4	0×2022 <b>Г</b> 0×A5	0x2013       0xA6	0x2014 <b>§</b> 0xA7	Ë 0xA8 0x0401	0x2122 © 0xA9 0x00A9	0x0459 <b>E</b> 0xAA	0x203A	0x045A 0xAC	0x045C (R) 0xAD 0x00AD	0x9E 0x045B <b>İ</b> 0xAE	0x045F 0xAF 0x0407
0x90 0x0452 0xA0 0x00A0 0	0x2018 <b>Ў</b> 0xA1 0x040E <b>土</b>	0x2019 <b>Ў</b> 0xA2 0x045E <b> </b>	0x201C J 0xA3 0x0408 i	0x201D 0xA4 0x00A4 C	0x2022 <b>Г</b> 0xA5 0x0490 <b>µ</b>	0x2013 0xA6 0x00A6	0x2014 <b>§</b> 0xA7 0x00A7	Ë <sup>0xA8</sup> 0x0401 ë	0x2122 © 0xA9 0x00A9 <b>NO.</b>	0x0459 <b>E</b> 0xAA 0x0404 <b>E</b>	0x203A 《 0xAB 0x00AB 》	0x045A 	0x045C ® 0xAD 0x00AD S	0x9E 0x045B <b>j</b> 0xAE 0x00AE <b>S</b>	0×045F 0×AF 0×0407 <b>i</b>
0x90 0x0452 0xA0 0x00A0 0 0xB0	0x2018 <b>Ў</b> 0xA1 0x040E <b>土</b> 0xB1	0x2019 <b>Ў</b> 0xA2 0x045E <b> </b> 0xB2	0x201C J 0xA3 0x0408 i 0xB3	0x201D 0xA4 0x00A4 <b>C</b> 0xB4	0×2022 <b>f</b> 0×A5 0×0490 <b>µ</b> 0×B5	0x2013 0xA6 0x00A6 ¶ 0xB6	0x2014 <b>§</b> 0xA7 0x00A7 • 0xB7	Ë 0xA8 0x0401 ë 0xB8	0x2122 © 0xA9 0x00A9 <b>NO.</b> 0xB9	0x0459 <b>E</b> 0xAA 0x0404 <b>E</b> 0xBA	0x203A	0x045A 	0x045C (R) 0xAD 0x00AD S 0xBD	0x9E 0x045B <b>İ</b> 0xAE 0x00AE <b>S</b> 0xBE	0x045F 0xAF 0x0407 <b>i</b> 0xBF
0x90 0x0452 0xA0 0x00A0 0 0x00A0 0 0x00A0	0x2018 <b>Ў</b> 0xA1 0x040E <b>土</b> 0xB1	0x2019 <b>Ў</b> 0xA2 0x045E <b>I</b> 0xB2 0x0406	0x201C J 0xA3 0x0408 i 0xB3	0x201D 0xA4 0x00A4 C	0×2022 C 0×A5 0×0490 U 0×B5 0×00B5	0x2013 0xA6 0x00A6 ¶ 0xB6 0x00B6	0x2014 <b>S</b> 0xA7 0x00A7 0xB7 0x00B7	Ë 0xA8 0x0401 ë 0xB8	0x2122 © 0xA9 0x00A9 <b>NO.</b> 0xB9 0x2116	0x0459 <b>E</b> 0xAA 0x0404 <b>E</b> 0xBA 0x0454	0x203A	0x045A 	0x045C (R) 0xAD 0x00AD 0x00AD 0x00AD 0x0405	0x9E 0x045B <b>İ</b> 0xAE 0x00AE <b>S</b> 0xBE	0x045F 0xAF 0x0407 <b>i</b> 0xBF
0x90 0x0452 0x0452 0x00A0 0 0x00A0 0 0x00B0 0x00B0 0x00B0	0x2018 <b>Š</b> 0xA1 0x040E <b>±</b> 0xB1 0x00B1 <b>b</b>	0x2019 <b>Ў</b> 0xA2 0x045E <b>I</b> 0xB2 0x0406 <b>B</b>	0x201C J 0xA3 0x0408 i 0xB3 0x0456	0x201D Д 0xA4 0x00A4 Г 0xB4 0x0491 Д	0×2022 0×A5 0×0490 0×B5 0×00B5 E	0x2013 0xA6 0x00A6 ¶ 0xB6 0x00B6 0x00B6 XK	0x2014 <b>S</b> 0xA7 0x00A7 • 0xB7 0x00B7 <b>S</b>	ё 0хА8 0х0401 ё 0хB8 0х0451 И	0x2122 © 0xA9 0x00A9 <b>No.</b> 0xB9 0x2116 <b>Ŭ</b>	0x0459 <b>E</b> 0xAA 0x0404 <b>E</b> 0xBA 0x0454 <b>K</b>	0x203A 0xAB 0x00AB 0x0BB 0x00BB 0x00BB	0x045A 0xAC 0x00AC j 0xBC 0x0458 M	0x045C ® 0xAD 0x00AD S 0xBD 0x0405 H	0x9E 0x045B 0xAE 0xAE 0x00AE S 0xBE 0x0455 O	0x045F 0xAF 0x0407 i 0xBF 0x0457 I
0x90 0x0452 0xA0 0x00A0 o 0x00A0 o 0x00B0 0x00B0 A 0xC0	0x2018 <b>Ў</b> 0xA1 0x040E <b>—</b> 0xB1 0x00B1 <b>—</b> 0xC1	0x2019 <b>Ў</b> 0xA2 0x045E <b>I</b> 0xB2 0x0406 <b>B</b> 0xC2	0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3	0x201D C 0xA4 0x00A4 C 0xB4 0x0491 0x0491 0xC4	0×2022 0×A5 0×0490 0×B5 0×00B5 0×00B5 0×C5	0x2013 0xA6 0x00A6 ¶ 0xB6 0x00B6 0x00B6 0xC6	0x2014 <b>§</b> 0xA7 0x00A7 • 0xB7 0x0B7 <b>0</b> x00B7 <b>3</b> 0xC7	ё 0xA8 0x0401 ё 0xB8 0x0451 И 0xC8	0x2122 © 0xA9 0x00A9 No. 0xB9 0x2116 Ĭ 0xC9	0x0459 8 0xAA 0x0404 8 0xBA 0x0454 K 0xCA	0x203A ( 0xAB 0x00AB 0x0BB 0x0BB 0x0BB 0x0BB	0x045A 0xAC 0x00AC j 0xBC 0x0458 M 0xCC	0x045C ® 0xAD 0x00AD 0x00AD 0x00AD 0x0405 H 0xCD	0x9E 0x045B 1 0xAE 0x00AE S 0x0455 0x0455 0x0455 0x0455	0x045F 0xAF 0x0407 i 0xBF 0x0457 0x0457 0xCF
0x90 0x0452 0xA0 0x00A0 o 0x00A0 o 0x00B0 0x00B0 A 0xC0	0x2018 <b>Ў</b> 0xA1 0x040E <b>±</b> 0xB1 0x00B1 <b>5</b> 0xC1 0x0C1 0x0C1	0x2019 <b>Ў</b> 0xA2 0x045E <b>I</b> 0xB2 0x0406 <b>B</b> 0xC2	0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3 0xC3 0x0413	0x201D 0xA4 0x00A4 <b>r</b> 0xB4 0x0491 <b>n</b> 0xC4 0x0414	0x2022 C 0xA5 0x0490 0xB5 0x0B5 0x0B5 0x0B5 0x0415 0x0415	0x2013 0xA6 0x00A6 ¶ 0xB6 0x00B6 0x00B6 0x06	0x2014 <b>§</b> 0xA7 0x00A7 • 0xB7 0x0B7 <b>0</b> x00B7 <b>3</b> 0xC7	ё 0xA8 0x0401 ё 0xB8 0x0451 И 0xC8	0x2122 © 0xA9 0x00A9 No. 0xB9 0x2116 Ĭ 0xC9	0x0459 8 0xAA 0x0404 8 0xBA 0x0454 K 0xCA	0x203A ( 0xAB 0x00AB 0x0BB 0x0BB 0x0BB 0x0BB	0x045A 0xAC 0x00AC j 0xBC 0x0458 M 0xCC	0x045C ® 0xAD 0x00AD 0x00AD 0x00AD 0x0405 H 0xCD 0xCD 0x041D	0x9E 0x045B 1 0xAE 0x00AE 0x00AE 0x0455 0x0455 0x0455 0x0455	0x045F 0xAF 0x0407 i 0xBF 0x0457 0x0457 0xCF 0xCF 0x041F
0x90 0x0452 0x0452 0x0000 0x0000 0x0000 0x0000 0x0000 0x0000 0x0010 0x0410 P	0x2018 <b>Š</b> 0xA1 0x040E <b>±</b> 0xB1 0x00B1 <b>b</b> 0xC1 0xC1 0x0411 <b>c</b>	0x2019 <b>Ў</b> 0xA2 0x045E <b>I</b> 0xB2 0x0406 <b>B</b> 0xC2 0x0412 <b>T</b>	0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3 0x0413 y	0x201D C 0xA4 0x00A4 C 0xB4 0x0491 0xC4 0xC4 0x0414 Q	0x2022 C 0xA5 0x0490 0xB5 0x00B5 E 0xC5 0x0415 X	0x2013 0xA6 0x00A6 0x00A6 0x00B6 0x00B6 0x00B6 0x0416 0x0416	0x2014 <b>§</b> 0xA7 0x00A7 0xB7 0x00B7 <b>3</b> 0xC7 0x0417 <b>4</b>	ё 0хА8 0х0401 ё 0хВ8 0х0451 И 0хС8 0х0418	0x2122 © 0xA9 0x00A9 0x00A9 0x0A9 0x0419 0xC9 0x0419 0x0419	0x0459 <b>E</b> 0xAA 0x0404 <b>E</b> 0xBA 0x0454 <b>K</b> 0xCA 0x041A <b>D</b>	0x203A 0xAB 0x00AB 0x00BB 0x00BB 0x00BB 0x00BB 0x041B 0x041B 0x041B	0x045A 0xAC 0x00AC 0xBC 0x0458 M 0xCC 0x041C D	0x045C (R) 0xAD 0x00AD 0x00AD 0x0405 H 0xCD 0x041D 0x041D	0x9E 0x045B 0xA5B 0xAE 0x00AE 0x0455 0 0xCE 0x041E 0x041E	0x045F 0xAF 0x0407 i 0xBF 0x0457 0x0457 0xCF 0x041F Я
0x90 0x0452 0xA0 0x00A0 0x00A0 0x000 0x000 0x000 0x0410 P 0xD0	0x2018 <b>Ў</b> 0xA1 0x040E <b>±</b> 0xB1 0x00B1 0x00B1 0x0C1 0xC1 0x0411 <b>C</b> 0xD1	0x2019 <b>ý</b> 0xA2 0x045E <b>I</b> 0xB2 0x0406 <b>B</b> 0xC2 0x0412 <b>T</b> 0xD2	0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3 0xC3 0xC3 0x0413 y 0xD3	0x201D C 0xA4 0x00A4 <b>r</b> 0xB4 0x0491 0x0491 0xC4 0x0414 <b>Φ</b> 0xD4	0x2022 C 0xA5 0x0490 0xB5 0x00B5 0x00B5 0xC5 0xC5 0x0415 X 0xD5	0x2013 0xA6 0x00A6 0x00A6 0x00B6 0x00B6 0x00416 0x0416 0x06	0x2014 <b>S</b> 0xA7 0x00A7 <b>·</b> 0xB7 0x0B7 0x00B7 <b>O</b> x07 <b>O</b> x0417 <b>U</b> 0x0417 <b>U</b> 0x07	ё 0xA8 0x0401 ё 0xB8 0x0451 И 0xC8 0xC418 0x0418 0x08	0x2122 0xA9 0x00A9 0x00A9 0xB9 0x2116 X 0xC9 0xC9 0x0419 U 0xD9	0x0459 <b>E</b> 0xAA 0x0404 <b>E</b> 0xBA 0x0454 <b>K</b> 0xCA 0xCA 0xCA 0x041A <b>D</b> 0xDA	0x203A 0xAB 0x00AB 0x0BB 0x0BB 0x00BB 0x00BB 0x0CB 0xCB 0xCB 0x041B 0x0B	0x045A 0xAC 0x00AC 0x00AC 0x0458 M 0xCC 0x041C 0x0C	0x045C (R) 0xAD 0x00AD 0x00AD 0x0405 H 0xCD 0xCD 0x041D 0xDD	0x9E 0x045B 0x045B 0xAE 0x00AE 0x00AE 0x0455 0x0455 0x0455 0x041E 0x041E 0x041E	0x045F 0xAF 0x0407 i 0xBF 0x0457 0x0457 0xCF 0xCF 0x041F
0x90 0x0452 0xA0 0x00A0 0x00A0 0x000 0x000 0x000 0x0410 P 0xD0	0x2018 <b>Ў</b> 0xA1 0x040E <b>±</b> 0xB1 0x00B1 0x00B1 0x0C1 0xC1 0x0411 <b>C</b> 0xD1	0x2019 <b>ý</b> 0xA2 0x045E <b>I</b> 0xB2 0x0406 <b>B</b> 0xC2 0x0412 <b>T</b> 0xD2	0x201C J 0xA3 0x0408 i 0xB3 0x0456 C 0xC3 0xC3 0xC3 0x0413 y 0xD3	0x201D C 0xA4 0x00A4 <b>r</b> 0xB4 0x0491 0x0491 0xC4 0x0414 <b>Φ</b> 0xD4	0x2022 C 0xA5 0x0490 0xB5 0x00B5 0x00B5 0xC5 0xC5 0x0415 X 0xD5	0x2013 0xA6 0x00A6 0x00A6 0x00B6 0x00B6 0x00416 0x0416 0x06	0x2014 <b>S</b> 0xA7 0x00A7 <b>·</b> 0xB7 0x0B7 0x00B7 <b>O</b> x07 <b>O</b> x0417 <b>U</b> 0x0417 <b>U</b> 0x07	ё 0xA8 0x0401 ё 0xB8 0x0451 И 0xC8 0xC418 0x0418 0x08	0x2122 0xA9 0x00A9 0x00A9 0xB9 0x2116 X 0xC9 0xC9 0x0419 U 0xD9	0x0459 <b>E</b> 0xAA 0x0404 <b>E</b> 0xBA 0x0454 <b>K</b> 0xCA 0xCA 0xCA 0x041A <b>D</b> 0xDA	0x203A 0xAB 0x00AB 0x0BB 0x0BB 0x00BB 0x00BB 0x0CB 0xCB 0xCB 0x041B 0x0B	0x045A 0xAC 0x00AC 0x00AC 0x0458 M 0xCC 0x041C 0x0C	0x045C (R) 0xAD 0x00AD 0x00AD 0x0405 H 0xCD 0xCD 0x041D 0xDD	0x9E 0x045B 0x045B 0xAE 0x00AE 0x00AE 0x0455 0x0455 0x0455 0x041E 0x041E 0x041E	0x045F 0xAF 0x0407 i 0xBF 0x0457 0x0457 0xCF 0x041F 9 0xDF
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# ■ Thai Stroke Font Only Character

The following characters are supported as Thai.

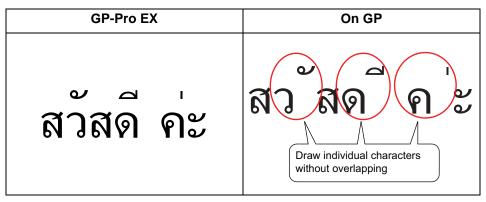
You can see the Character Code under each letter. The upper is Native code, and the lower is Unicode.

IMPORTANT	•	The red letters cannot be used individually since they are superimposed
		characters.

	1	"	#	\$	%	&		(		*	+		_		
0x20	• 0x21	0x22	0x23	Ψ 0x24	0x25	0x26	0x27	<b>x</b> 0x28	/ 0x29	0x2A	0x2B	, 0x2C	0x2D	• 0x2E	/ 0x2F
	0x21			0x24 0x0024						0x002A					
0	1	2	3	4	5	6	7	8	9	:	- ,	<	=	>	?
0x30 0x0030	0x31 0x0031	0x32 0x0032	0x33 0x0033	0x34 0x0034	0x35 0x0035	0x36 0x0036	0x37 0x0037	0x38 0x0038	0x39 0x0039	0x3A 0x003A	0x3B 0x003B	0x3C 0x003C	0x3D 0x003D	0x3E 0x003E	0x3F 0x003F
@	Α	В	С	D	E	F	G	Η	Ι	J	Κ	L	Μ	Ν	0
0x40 0x0040	0x41 0x0041	0x42 0x0042	0x43 0x0043	0x44 0x0044	0x45 0x0045	0x46 0x0046	0x47 0x0047	0x48 0x0048	0×49 0×0049	0x4A 0x004A	0x4B 0x004B	0x4C 0x004C	0x4D 0x004D	0x4E 0x004E	0x4F 0x004F
Ρ	Q	R	S	Т	U	V	W	Х	Y	Ζ	Γ	¥	]	^	_
0x50	0x51	0x52	0x53	0x54	0x55	0x56	0x57	0x58	0x59	0x5A	0x5B	0x5C	0x5D	0x5E	0x5F
0x0050	0x0051	0x0052	0x0053		0x0055		0x0057		0×0059	0x005A		0x005C	0x005D	0x005E	0x005F
	a	b	C	d	е	f	g	h	Í	Ĵ	k		m	n	0
0x60	0x61	0x62	0×63	0x64	0×65	0x66	0x67	0x68	0×69	0x6A	0x6B	0x6C	0x6D	0x6E	0x6F
0×0060	0x0061	0×0062	0x0063		0×0065	0×0066	0×0067	0×0068	0×0069	0x006A	0×006B	0×006C	0×006D	0×006E	0x006F
р	q	r	S	l t	u	V	W	X	У	Z	{		}		
0x70	0x71	0x72	0x73	0x74	0x75	0x76	0x77	0x78	0×79	0x7A	0x7B	0x7C	0x7D	0x7E	0x7F
0x0070	0x0071	0×0072	0x0073	0x0074	0×0075	0x0076	0×0077	0x0078	0×0079	0x007A	0x007B	0x007C	0x007D	0x007E	0x007F
0x80	0x81	0x82	0x83	0x84	0x85	0x86	0x87	0x88	0x89	0x8A	0x8B	0x8C	0x8D	0x8E	0x8F
0x20AC					0×2026										
	6	,		"	•	_									
0x90	0x91	0x92	0x93	0x94	0x95	0x96	0x97	0x98	0×99	0x9A	0x9B	0x9C	0x9D	0x9E	0x9F
	0x2018	0x2019	0x201C	0x201D	0x2022	0x2013	0x2014								
	ึก	ข	ฃ	ิค	ମ	ฆ	4	จ	ฉ	ช	ช	ณ	ល្អ	ฎ	ฏ
0xA0	0xA1	0xA2	0xA3	0xA4	0xA5	0xA6	0xA7	0xA8	0xA9	0xAA	0xAB	0xAC	0xÅD	0xAE	0xAF
0x00A0	0x0E01	0x0E02	0×0E03	0×0E04	0x0E05	0x0E06	0x0E07	0x0E08	0×0E09	0x0E0A	0x0E0B	0x0E0C	0x0E0D	0x0E0E	0x0E0F
ฐ	ฑ	ଜ୍ୟ	ณ	୭	ଡ଼	ຄ	ท	อี	น	บ	ป	ผ	ฝ	พ	ฟ
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0x0E20	0x0E21	0x0E22		0x0E24				0x0E28	0×0E29	0x0E2A	0x0E2B	0x0E2C	0x0E2D	0x0E2E	0x0E2F
ود	<u>م</u>	า	ຳ	-	đ	น	а	9	v						₿
0xD0	0xD1 0x0E31	0xD2	0xD3	0xD4	0xD5	0xD6	0xD7	0xD8	0xD9	0xDA	0xDB	0xDC	0xDD	0xDE	0xDF 0x0E3F
		<sup>0x0E32</sup> آ	<sup>0x0E33</sup> ใ	<u>المرد المراجع</u>	0x0E35		©XUE37	UXUE36	0X0E39	0XUE3A	+	6	0	ε	
l 0xE0	ll 0xE1	เ 0xE2	ل 0xE3	ь 0xE4	0xE5	ຖ 0xE6	0xE7	0xE8	0xE9	0xEA	0xEB	0xEC	0xED	0xEE	⊙ 0xEF
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0	໑	ല	ា	୍ <i>ଘ</i>	æ	લં	ຄ	ಷ	ଙ	ป	<u>C</u> ~~				
0xF0	0xF1	0xF2	0xF3	0xF4	0xF5	0xF6	0xF7	0xF8	0xF9	0xFA 0x0E5A	0xFB	0xFC	0xFD	0xFE	0xFF

• 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 differently on GP.





• You cannot use Thai superimposed characters for the Key Part.

### 6.2.2 Setup Procedure

NOTE	Font", you do not have to add/delete fonts (the following steps 1 - 4). Start by
	<ul> <li>setting the text.</li> <li>Please refer to the settings guide for details.</li> <li>"9.12.1 Text Settings Guide" (page 9-75)</li> </ul>
	<ul> <li>For more information about text, please refer to "9.3 Writing Text" (page 9-23).</li> </ul>

These fonts are used normally.

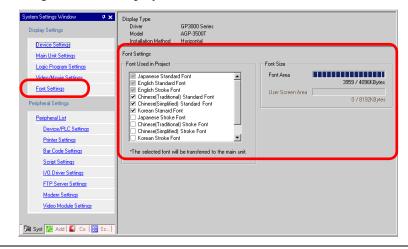
The stroke font can be freely enlarged.

The standard font displays even small sized characters well.

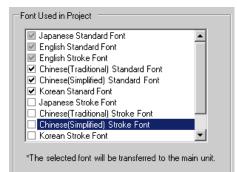
(e.g.) Text in stroke font



1 Select GP-Pro EX's [System Settings Window] menu - [Font Settings] command and then the [Font Settings] screen is displayed.



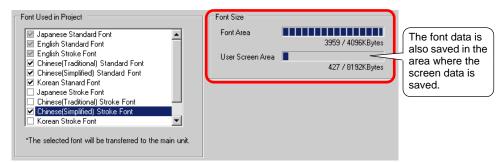
- If the [System Settings Window] tab is not displayed in the Work Space, select the [View (V)] menu [Work Space (W)] option [System Settings Window (S)] command.
- 2 Select the [Chinese (Simplified) Stroke Font] check box in the [Font Used in Project] to add the font.



**3** When you place a check mark, the following message is displayed.

💰 Confirm	i User Screen Area Use 🛛 🛛 🕅 🕅 🕅
?	Since the font memory area has no more free space, any additional font will occupy the user screen area. In this case, user screen capacity for drawing will be reduced. Do you want to use the user screen area to add a font?
	<u>( Yes [Y]</u> No ( <u>N</u> )

Click [Yes] to save the font data that the [Font Area] cannot store in the [User Screen Area] or to adjust the Font Area later as in the step 4. If you click [Yes], you can confirm that the User Screen Area is also used.

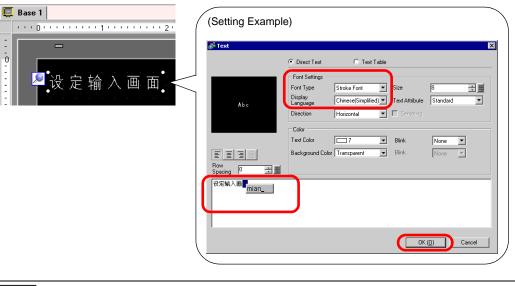


Click [No] to cancel adding the font.

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

Font Used in Project	re
Japanese Standard Font Font Are Font Are Font Are	

5 Let's draw a text taking Chinese (Simplified) Stroke Font as an example. Place the text in the drawing area and double-click. Select [Stroke Font] for the [Font Type], and [Chinese (Simplified)] for the [Display Language], and set to Roman Letter Input. Click [OK] to close the [Text] dialog box.



• The moment you select the [Stroke Font] in [Font Type] or the moment you change the [Display Language], the following dialog box may be displayed. This is to confirm whether or not to add the font type, because a switch has been set before adding the font.

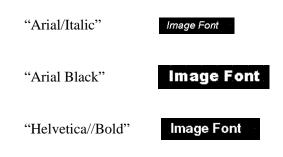
💰 Confirn	n Font Type Add	$\times$
?	The selected font has not been registered as a font for projects in the "Font Settings" section of "System Settings". This font type will be added. Is that OK?	
	<u>     Yes [Y]</u> No [N]	
To ad	d the font, click [Yes].	

If you click [No], adding the font is cancelled. If you transfer the text in this state to the GP, the set text cannot be displayed.

# 6.3 Image Font

### 6.3.1 Details

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



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

### Text Feature

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

Image Font

e.g.: "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 capcity. 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 [Properties (I)] - [Project Information (I)] - [Send Data] - [Send Size], and make sure not use too many Image Fonts.

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

### 6.3.2 Setup Procedure

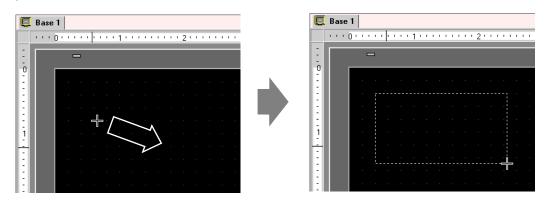
NOTE

• Please refer to the settings guide for details. (9.12.1 Text Settings Guide" (page 9-75)

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



1 Select [Text (S)] from the [Draw (D)] menu or click A. Click on the base screen and drag to get a disired size.



2 Place the text and then right-click it to release the text's draw mode. Double-click the placed text and the setting dialog box will be displayed.

💰 Text					×
	Direct Text	C Text Table			
	Font Settings				
	Font Type	Standard Font	Character Size	16 x 56 dot	-
ñh-e	Display Language	ASCII	Text Attribute	Standard	•
	Direction	Horizontal 💌	Centering		
	Color				
	Text Color	7 💌	Blink	None 💌	
EEE	Background Color	Transparent 💌	Blink	None	
Row Spacing 0 📑 🏢	Shadow Color	1 -	Blink	None 💌	
Text					
					-1
			OK (	<u>0)</u> Cano	ei

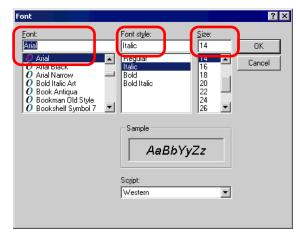
**3** Select [Image Font] for the [Font Type].

🌮 Text					×
	O Direct Text	◯ Text Tab	le		
	Font Settings				
	Font Type	Image Font	J		
Abc	Select Font	Microsoft Sans			
	Compress		🔲 Centering		
	Color				
	Text Color	7	■ Blink	None	•
王王王国	Background Color	Transparent	<ul> <li>Blink</li> </ul>	None	<b>V</b>
Row Spacing					
Text					
					Cancel

4 Click the [Select Font]'s pull-down button to display the setting dialog box.

Select Font	Microsoft Sans		ί	Click here.	
		-	_		_

5 Select [Font] (e.g.: "Arial"), [Font Style] (e.g.: "Italic"), and [Size] (e.g.: "14"), and click [OK].



• If you use vertical text, select a font for vertical text (beginnning with @ "e.g.: @MS Gothic") for the font.

6 Put a check mark next to the [Compress] box. The font volume will be compressed by about 1/2, depending on characters.

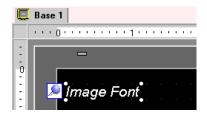
Abc         Font Settings         Font Type         Image Font         Select Font         Arial 14 pt         Color         Text Color         Text Color         Text Color         Text Color         Background Color         Transparent         Blink         None
Abc
Abc       Select Font       Arial 14 pt       Image: Content ing         Image: Color       Image: Color       Image: Color       Image: Color         Image: Text Color       Image: Text Color       Image: Text Color       Image: Text Color         Image: Text Color       Image: Text Color       Image: Text Color       Image: Text Color         Image: Text Color       Image: Text Color       Image: Text Color       Image: Text Color         Image: Text Color       Image: Text Color       Image: Text Color       Image: Text Color         Image: Text Color       Image: Text Color       Image: Text Color       Image: Text Color         Image: Text Color       Image: Text Color       Image: Text Color       Image: Text Color         Image: Text Color       Image: Text Color       Image: Text Color       Image: Text Color         Image: Text Color       Image: Text Color       Image: Text Color       Image: Text Color         Image: Text Color       Image: Text Color       Image: Text Color       Image: Text Color         Image: Text Color       Image: Text Color       Image: Text Color       Image: Text Color         Image: Text Color       Image: Text Color       Image: Text Color       Image: Text Color         Image: Text Color       Image: Text Color       Image: Text Color       <
ADC
Text Color     7     Blink     None       Background Color     Transparent     Blink     None
E E E IEI Background Color Transparent ▼ Blink None ▼
Row no management
Spacing   🗇 🛱 📕
Text
OK ( <u>0</u> ) Cancel

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

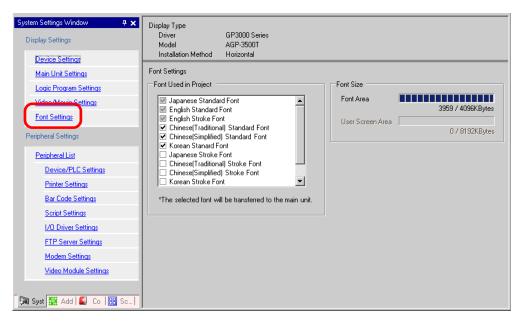
7 Select the colors you want and input text in the Input Text border.

	Color Text Color	Blink Blink		1
E E E E	Background Color		None	
Image Font				

 $\boldsymbol{8}$  Click [OK] and the setting are completed.



# 6.4 [Font Settings] Settings Guide



Setting		Description			
Fo	nt Settings	Configure font settings.			
		Select the fonts used in project files.			
	Font Used in Project	NOTE			
	Floject	• You cannot release [Japanese Standard Font], [English Standard Font], or [English Stroke Font] because they are standard-supplied fonts.			
Fo	nt Size	Displays the memory size of the font.			
	Font Area	Displays the memory size being used in the font area from 0/4096 Kbytes to 4096/4096 Kbytes.			
	User Screen Area	Display the memory size of the font you are using in the User Screen area. The size of the User Screen area depends on the model of GP. ** "1.3 List of Supported Functions by Device" (page 1-4)			

# 6.5 Restrictions

# 6.5.1 Restrictions for Standard Font

- When [ASCII] is selected for the [Standard Font]'s [Display Language], you can select a text size you want from the three fixed sizes [6 × 10 dot], [8 × 13 dot], and [13 × 23 dot].
- When the [Character Size] is [6 × 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 Western text table and select/add the part's text. Text on a table without Western language settings cannot be properly displayed.
- If you change the font type to [Standard Font] for the part label or text inputted with [Stroke Font], the text may not be displayed.
- 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.

# 6.5.2 Restrictions for Image Font

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