

## “Custom Text Formatting” library v1.03

[ENG]

by Tyann & Komame

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As of today (for HP Prime firmware version 14730), the only built-in command in the PPL language that allows displaying text in graphical mode is TEXTOUT\_P. However, it is very limited in text formatting capabilities, as it only allows changing the font size, font color and applying a background of a specified color. To enhance the capabilities of the PPL language in this area, the “Custom Text Formatting” library has been developed, which enables the application of many more options for text formatting.

Currently, the library allows for the application of the following formatting options: font size, text color, background color, strikethrough, underline, frame, italic, bold, relief, and semi-transparency.

There are two commands available: ATEXTOUT\_P and ATEXTSIZE.

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**ATEXTOUT\_P** - an advanced version of the standard TEXTOUT\_P command, allowing text display with additional formatting.

The ATEXTOUT\_P command has been designed in such a way as to maintain compatibility with the TEXTOUT\_P command. This means that it can be easily applied in all programs where the TEXTOUT\_P command is currently used. Thus, it is sufficient to add the prefix “A” when invoking the command and add the desired text formatting parameters.

Syntax:

ATEXTOUT\_P(text, [G], x, y, [fontsize], [textcolor], [formatting], [alpha], [width], [backcolor])

where:

text - string to display

G - GROB (default G0)

x - x-coordinate

y - y-coordinate

fontsize - font size (0 - 7, default 0 - current home settings)

textcolor - color (default 0 - black)

formatting - formatting attributes (flags: 1 - strikethrough, 2 - underline, 4 - frame, 8 - italic, 16 - bold, 32 - relief)

alpha - alpha channel for semi-transparency (0 - 255, default 0 - no transparency, 255 - full transparency)

width - width limit (default is all text, max = 511 pixels)

backcolor - background color (default is no background).

Examples:

ATEXTOUT\_P("My text",20,20,5,255,24);

draws italic bold text with font size 5 at location 20,20.

ATEXTOUT\_P("My text",30,40,7,#FFh,4,128,200,#BBBBBBh);

draws semi-transparent (level 128) blue text in a frame with a gray background at location 30,40.

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**ATEXTSIZE** - returns the size (width and height) of the text (alternative to TEXTSIZE), considering formatting attributes in calculations.

Syntax:

ATEXTSIZE(text, fontsize, formatting)

where:

text - string to measure

fontsize - font size

formatting - formatting attributes (flags values corresponding to the ‘formatting’ parameter from ATEXTOUT\_P)

Examples:

ATEXTSIZE("My text",7,16);

returns the width and height of "My text" with font size 7 and bold formatting.