

WEINTEK LABS., INC.

PATLITE LED

Demo Project

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1. Overview and Operation

Overview

The scrolling text marguee installed in buildings or factories can display events or real-time information. By adjusting the speed, color, or blinking way of the scrolling text, the level of emergency or current situation can be shown more clearly.

PATLITE LED has two types of codes, JIS and BIG5, whereas HMI uses Unicode to display Japanese or Chinese characters. Therefore the two registers, **Uni2JIS** and **Uni2BIG5** are used for mapping.

There are two ways to set the content displayed by PATLITE LED, one is to use the editor software, VM-WinR, to preset different pages and display different content by switching pages. Another way is to use registers to set the text properties.

This demo project explains how to use both HMI and PATLITE LED to display messages of on-site situation.

2. Using Registers (Window no. 10)

Use EasyBuilder registers to set the text properties.

Address	Description
LAW0001	Changes display page. Enter different values in this register to switch LED screen display pages.
LAW0005	Control flag. After setting display properties, turn ON bit 2 to update LED display.
LAW0006	<p>Displays parameters. Use the bits of this word register to control different properties in order to design the display.</p> <ul style="list-style-type: none"> ■ LAW6Mode: Display mode <ul style="list-style-type: none"> 0: Normal 1: Invert 2: Blink 3: Invert + Blink ■ LAW6Style: Font <ul style="list-style-type: none"> 0: Normal 1: Bold 2: Shaded ■ LAW6Scale: Font size <ul style="list-style-type: none"> 0: x1 1: x2 2: x4 3: 1/4 ■ LAW6BG_c Background Color: Background color <ul style="list-style-type: none"> 0: Black 0000(0) 2: Red 0010(2) 4: Green 0100 (4) 6: Orange 0110 (6) ■ LAW6Chr_c Character Color: Character color <ul style="list-style-type: none"> Tri-color LED 0: Black 0000(0) 2: Red 0010(2)

	<p>4: Green 0100 (3,4) 6: Orange 0110 (6)</p> <p>256 color LED 0: Black 0000(0) 1: White 0001 (1) 2: Red 0010(2) 4: Green 0100 (3,4) 5: Purple 0101 (5) 6: Orange 0110 (6) 7: Blue 0111 (7)</p>
LAW0007	The display position on the x-axis direction.
LAW0008	The display position on the y-axis direction.
LAW0009	Displays content. Create a Numeric Input object to enter alphabets / numbers. If use BIG5 models, select UNI2BIG5 address type and use UNICODE. After entering UNICODE text, HMI automatically translates to BIG5 and transfer to LED display.

3. Using Editor Software (Window no. 11)

Use PATLITE LED editor software VM-WinR to edit the content of display screens and then download to LED display. On HMI use LAW0001 to switch display pages. The pages can contain Tag information which is controlled by LAW registers. The format of the Tag can be BCD, HEX, DEC, and ASCII. Setting values in LAW register on HMI to display the preset contents.