

Demo Kit User Guide

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Section 1 How to start the demo kit

Please follow the steps to start the demo kit.

Step 1. Power On

Turn on the power of demo kit.

Step 2. Decide Driver IC and Driving Waveform

Type the keypad to decide driver IC and driving waveform. If user didn't key in defined sequence as below, the sequence will be ignored.

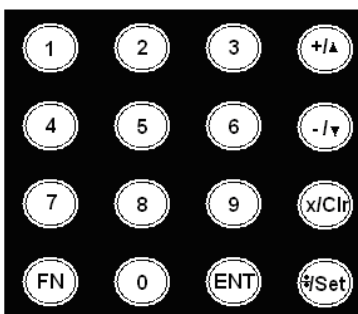
| Keypad sequence | Driver IC | Operation mode | Waveform |
|-------------------|---------------------|----------------|---|
| "1" + "1" + "ENT" | DSM04001 (for SI12) | Static mode | ESL02 |
| "1" + "2" + "ENT" | DSM04001 (for SI12) | Static mode | ESL05 |
| "1" + "3" + "ENT" | DSM04001 (for SI12) | Dynamic mode | Fast driving waveform → During setting process ESL05 → To perform best display after setting process |
| "2" + "1" + "ENT" | SSD1623 (for SI19) | Static mode | ESL02 |
| "2" + "2" + "ENT" | SSD1623 (for SI19) | Static mode | ESL05 |
| "2" + "3" + "ENT" | SSD1623 (for SI19) | Dynamic mode | Fast driving waveform → During setting process ESL05 → To perform best display after setting process |

PS:

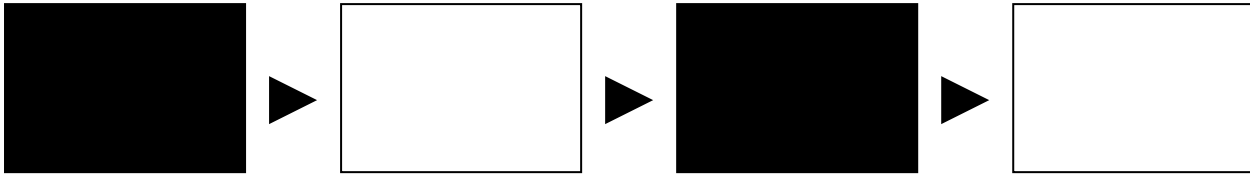
ESL02 waveform: 5.8 sec with flash effect before display

ESL05 waveform: 3 sec @ room temperature

Fast driving waveform: 1 second driving time



If the keypad key-in is successful, the demo kit will refresh the whole panel to pure white. User can judge if the keypad key-in is successful by the refresh action.



There are two operation modes: static mode and dynamic modes.
Static mode: Only show constant demo patterns.
Dynamic mode: Allow user to key in patterns during setting process.

Step 3.1 Static Mode

A. For DSM04001 (for SI12)

User can type keypad to display different static patterns. Exit static mode by power off.

| Keypad | Pattern |
|--------|--|
| "1" | You save \$ 15.56 , non-member price \$72.34 /LB, \$56.78 /LB, Thru 12/25 |
| "2" | You save \$ 13.61 , non-member price \$90.28 /Kg, \$76.67 /Kg, Thru 11/08 |
| "3" | You save \$ 6.6 , non-member price \$55.00 /oz, \$48.40 /oz, Thru 02/28 |
| "4" | You save \$ 3.94 , non-member price \$19.70 /PKg, \$15.76 /PKg, Thru 07/31 |
| "5" | You save \$ 10.78 , non-member price \$45.88 /Kg, \$35.10 /Kg, Thru 09/28 |
| "6" | Follow 1 to 5 show the patterns, interval is 5 seconds. Exit by power off. |
| "7" | Follow 1 to 5 show the patterns, interval is 1 minute. Exit by power off. |
| "8" | All segments go black and background go white |
| "9" | All segments go white and background go black |

B. For SSD1623 (for SI19)

User can type keypad to display different static patterns. Exit static mode by power off.

| Keypad | Pattern |
|---------------|--|
| "1" | \$72.34 unit price, You save \$ 15.56 , \$56.78 |
| "2" | \$90.28 unit price, You save \$ 13.61 , \$76.67 |
| "3" | \$55.00 unit price, You save \$ 6.6 , \$48.40 |
| "4" | \$19.70 unit price, You save \$ 3.94 , \$15.76 |
| "5" | \$43.88 unit price, You save \$ 7.76 , 2 for \$80.00 |
| "6" | Follow 1 to 5 show the patterns, interval is 5 seconds. Exit by power off. |
| "7" | Follow 1 to 5 show the patterns, interval is 1 minute. Exit by power off. |
| "8" | All segments go black and background go white |
| "9" | All segments go white and background go black |

Step 3.2 Dynamic Mode

A. For DSM04001 (for SI12)

User can follow the process to decide the display patterns by key-in. Exit dynamic mode by power off.

e-Tag Programmer (DeMos040, SI12v5)

- There are two operation stages

1. Setting stage:

User input information and display number in each typing.

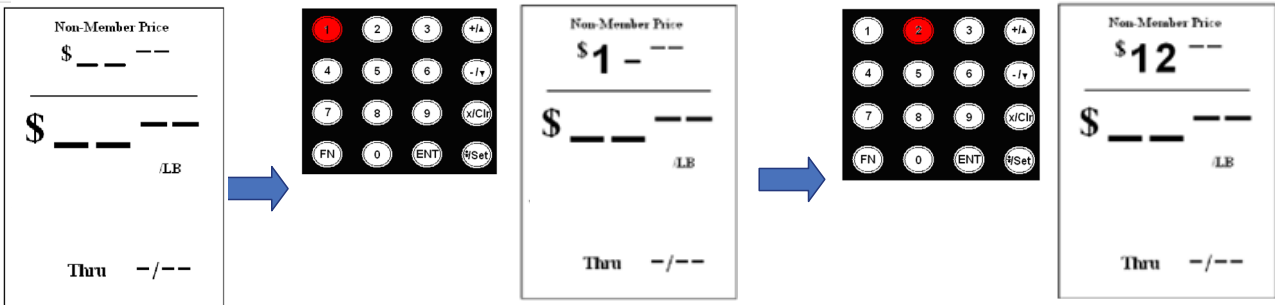
2. Final stage:

After all information have be set, execute ESL02 or E SL05 to re-drive the panel.

| Press Key | Function |
|-----------|--|
| 0 | Display '0' number in the pointed location (Fast waveform) |
| 1 | Display '1' number in the pointed location (Fast waveform) |
| 2 | Display '2' number in the pointed location (Fast waveform) |
| 3 | Display '3' number in the pointed location (Fast waveform) |
| 4 | Display '4' number in the pointed location (Fast waveform) |
| 5 | Display '5' number in the pointed location (Fast waveform) |
| 6 | Display '6' number in the pointed location (Fast waveform) |
| 7 | Display '7' number in the pointed location (Fast waveform) |
| 8 | Display '8' number in the pointed location (Fast waveform) |
| 9 | Display '9' number in the pointed location (Fast waveform) |
| FN | Display space ' ' number in the pointed location (Fast waveform) |
| ENT | After input all decimal numbers, re-drive the whole panel (ESL02/05) |
| Clr | Clear current decimal number and display '.' (Fast waveform) |
| + and - | To select weight unit (Fast waveform) |
| Set | N/A |

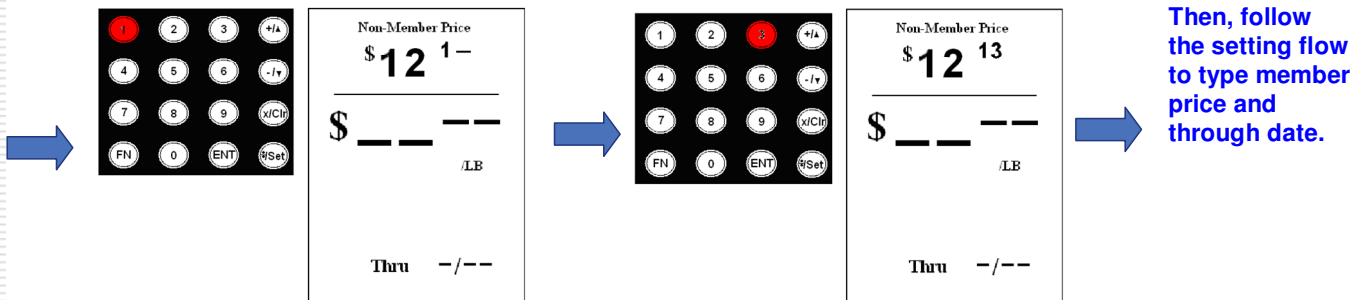


Setting Stage

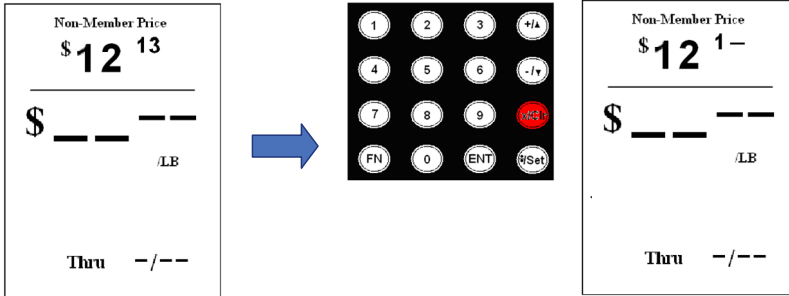


This is initial photo after power on.

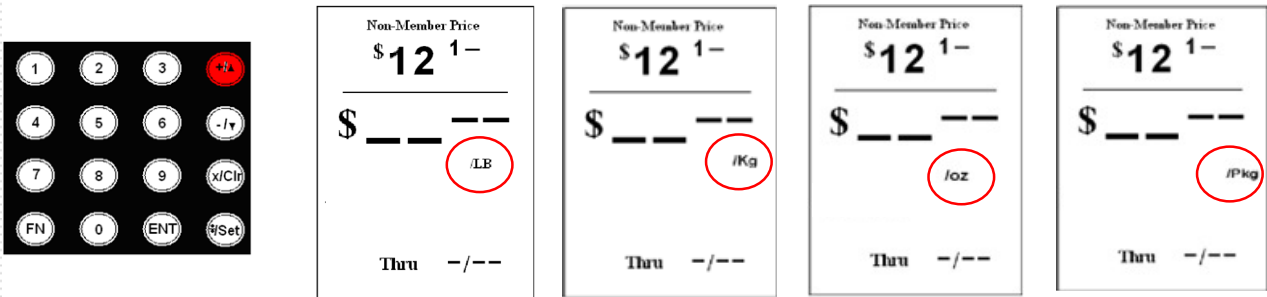
Type number and display the number in each type.
Ex: \$12.13 for non-member price



Setting Stage



In setting stage, we can use "Clr" key to correct the current number



Use '+' and '-' to select weight unit.

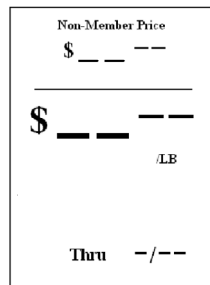
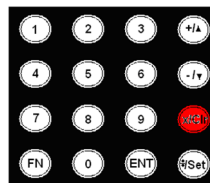
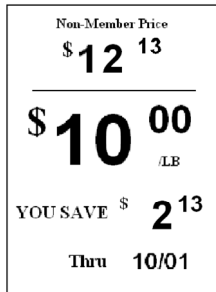
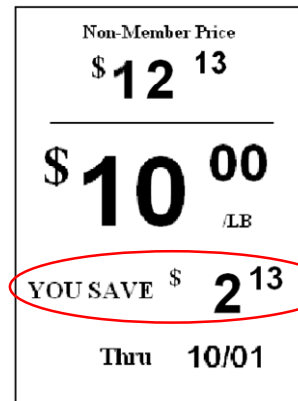
Final Stage



All numbers are set



Key in "Set" to re-drive the panel by ESL03. Then, enter final stage. The saved money will be calculated and displayed automatically.



In final stage, if we type "Clr", it will go back to setting stage.

B. For SSD1623 (for SI9)

User can follow the process to decide the display patterns by key-in. Exit dynamic mode by power off.

e-Tag Programmer (SSD1623, SI19v6)

- There are two operation stages

1. Setting stage:

User input information and display number in each typing.

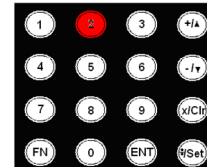
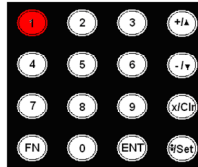
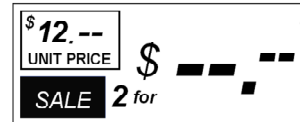
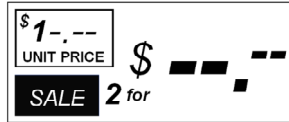
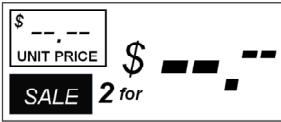
2. Final stage:

After all information have be set, execute ESL02 or E SL05 to re-drive the panel.

| Press Key | Function |
|-----------|--|
| 0 | Display '0' number in the pointed location (Fast waveform) |
| 1 | Display '1' number in the pointed location (Fast waveform) |
| 2 | Display '2' number in the pointed location (Fast waveform) |
| 3 | Display '3' number in the pointed location (Fast waveform) |
| 4 | Display '4' number in the pointed location (Fast waveform) |
| 5 | Display '5' number in the pointed location (Fast waveform) |
| 6 | Display '6' number in the pointed location (Fast waveform) |
| 7 | Display '7' number in the pointed location (Fast waveform) |
| 8 | Display '8' number in the pointed location (Fast waveform) |
| 9 | Display '9' number in the pointed location (Fast waveform) |
| FN | Display space ' ' number in the pointed location (Fast waveform) |
| ENT | After input all decimal numbers, re-drive the whole panel (ESL02/05) |
| Clr | Clear current decimal number and display '.' (Fast waveform) |
| + and - | To select weight unit (Fast waveform) |
| Set | N/A |

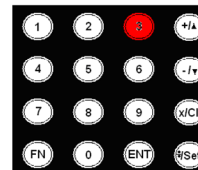
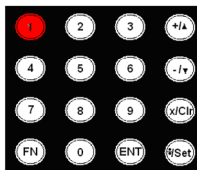
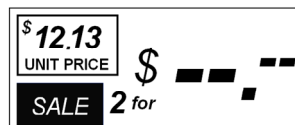
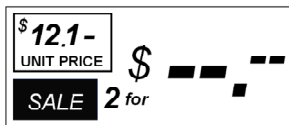


Setting Stage



This is initial photo after power on.

Type number and display the number in each type.
Ex: \$12.13 for unit price.



Then, follow the setting flow to type the discount price for double units

Final Stage



Key in "Set" to re-drive the panel by ESL02/05. Then, enter final stage. The saved money will be calculated and displayed automatically.

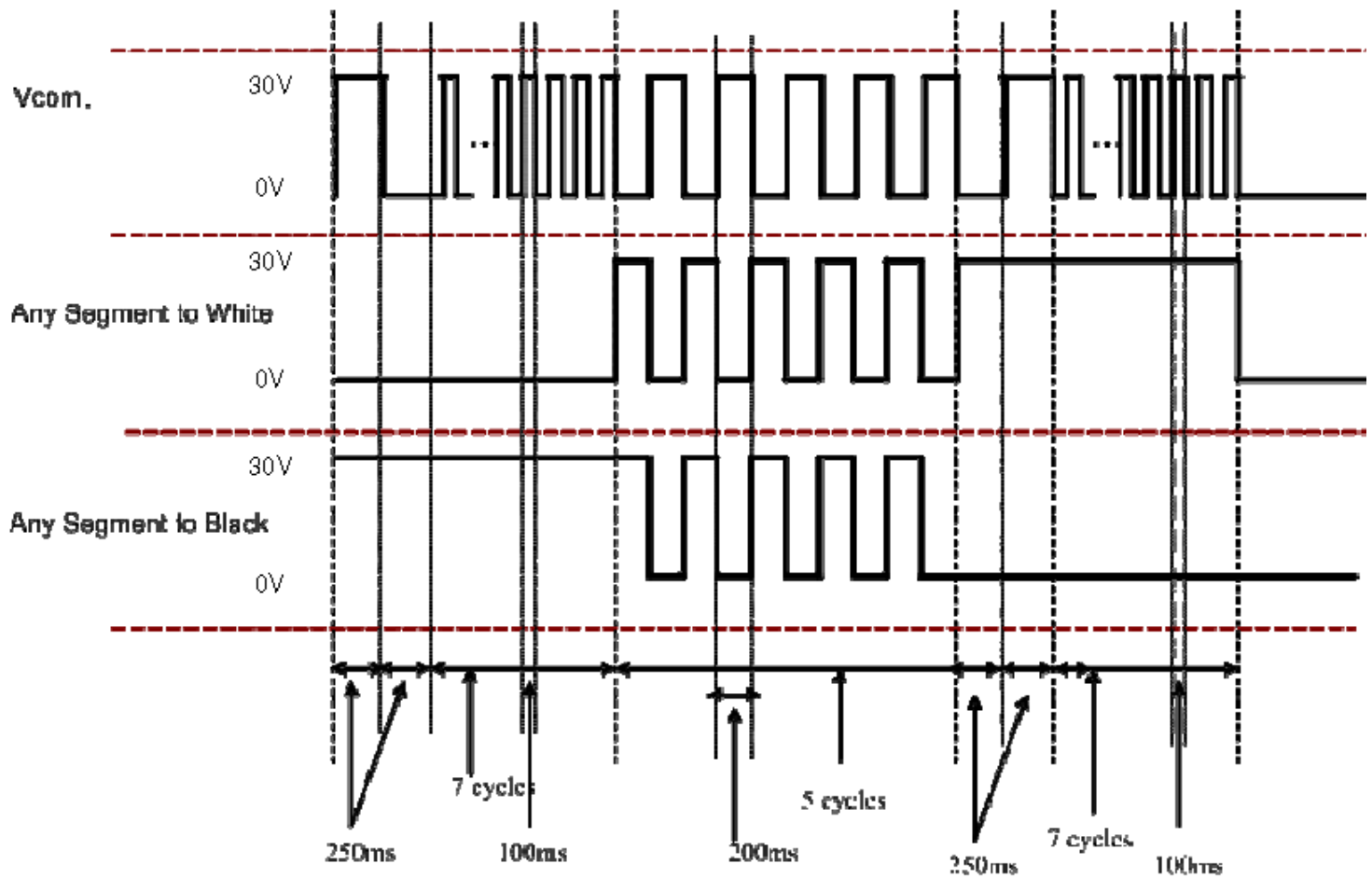
All numbers are set



Section 2 Driving waveform

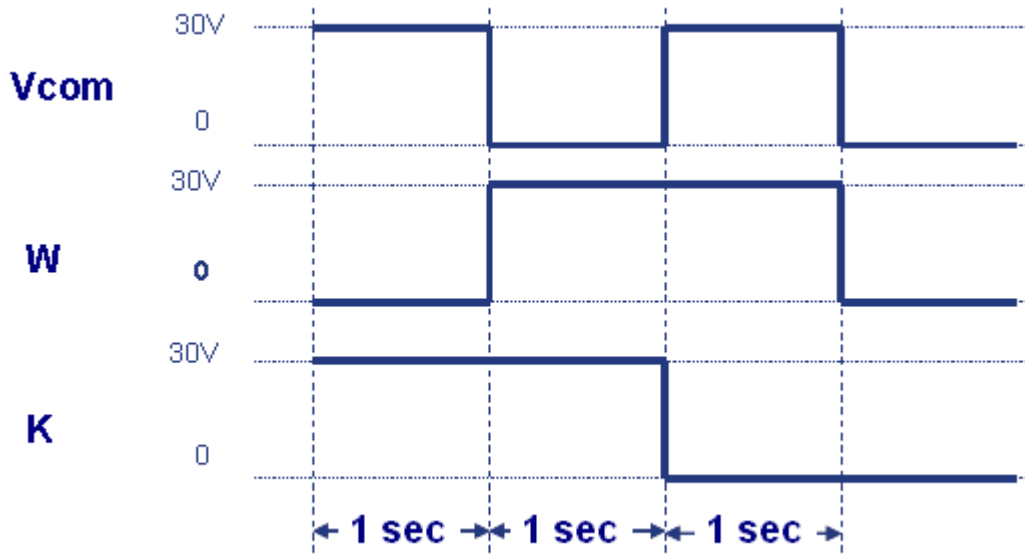
2.1 ESL02

- Total driving time is 5.8 seconds.
- This waveform has best bi-stability performance.



2.2 ESL05

- Total driving time is 3 seconds.



2.3 Fast driving waveform (quicker ESL05)

- Total driving time is 900ms.

- This waveform is used to respond keypad press quickly in dynamic mode.

