



SBLM-2-2x## Message Sign Manual

toll-free **800.814.4053**
local **909.793.8457**
fax **909.798.4457**

2015 West Park #3
P.O. Box 8891
Redlands, CA 92373

www.matko.com

matko
ELECTRONIC DISPLAYS



Options:

To enter the options, hold the LEFT button during countdown. While in Options, LEFT increments the Option Number and Right toggles the option value.

Option 0: RESET

Resets the unit to factory defaults

Option 1: Version

Displays the software version

Option 2: Baud Rate

Select between 1200(default), 2400, 4800, 9600, and 19200 baud

Option 3: Timeout

Set the period in seconds before unit times out. Default of 0 is 5 seconds

Option 4: No Data

Selects what to do after the timeout period. 0-Hold the last display (default), 1-Display No Data, 2-Blank the screen

Option 5: Addressable

Sets the unit to look for a specific address before accepting a stream. Default is a Start of text (0x02)

Option 6: No Count Down

Disable Count Down on reset. Default of 0 allows count down, 1 disables countdown



Stream Format

<SP><Address><Line 1 Data><LF><Line 2 Data><CR>

- <SP> Space (dec 32)
- <Address> Address character -default is a start of text (dec 2)
- <Line 1 Data> text for upper line
- <LF> Line Feed (dec 10)
- <Line 2 Data> text for lower line including large characters
- <CR> Carriage Return (dec 13)

Large Character Format

Larger (3.5" high) characters can be displayed by transmitting 2 bytes. The first byte is an Enquiry (dec 5) and the second character is the desired display character. All large characters are transmitted with Line 2 Data

Example Streams

Display

A	B	C	D	E	F	G	H
1	2	3	4	5	6	7	8

Stream

<SP><STX>ABCDEFGH<LF>12345678<CR>

A	2	B	C	D	E	F
1	2	3	4	5	6	7

<SP><STX>ABCDEF<LF>1<ENQ>234567<CR>

A	2	B	4	C	D
1	2	3	4	5	6

<SP><STX>ABCD<LF>1<ENQ>23<ENQ>456<CR>

1	2	3	4
1	2	3	4

<SP><STX><LF><ENQ>1<ENQ>2<ENQ>3<ENQ>4<CR>



Building Tip:

Sketch out what you want the message sign to read and start by constructing the bottom line including large characters first, then go back and fill in the first line with the appropriate characters

Building Example



Step 1: Determine stream for Line 2

B	A	Y	1								
				O	v	e	r		C	a	p

<Line 2 Data>
<ENQ>B<ENQ>A<ENQ>Y<ENQ>1Over Cap

This leaves 8 characters to fill in to line 1, starting above the O

Step 2: Determine stream for Line 1

B	A	Y	1			7	2	,	1	6	0
				O	v	e	r		C	a	p

<Line 1 Data>
<SP><SP>72,160

Step 3: Assemble full stream

<SP><STX><Line 1 Data><LF><Line 2 Data><CR>

The full stream would look like

<SP><STX><SP><SP>72,160<LF><ENQ>B<ENQ>A<ENQ>Y<ENQ>1Over Cap<CR>