

Appendix D - MVI56-CLVM Bit Map for CLV Scanner Configuration data.

Code Configuration

Register 0-89

Word\Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
0	Multiple Reads								Length Type				D	C	A	
1	Length 2 (01-50)								Length 1 (01-50)							
2	Length 4 (01-50)								Length 3 (01-50)							
3									Length 5 (01-50)							
4	Code Spec 2 (01-7F)								Code Spec 1 (01-7F)							
5	Code Spec 4 (01-7F)								Code Spec 3 (01-7F)							
6	Code Spec 6 (01-7F)								Code Spec 5 (01-7F)							
7									Code Spec 7 (01-7F)							
8																

<u>Parameter</u>	<u>Value</u>
Activate Evaluation (A)	0 or 1
Check Digit (C)	0 or 1
Decoding Algorithm (D)	0 or 1
Length Type	0=Not Use, 1=LE, 2=LI, 3=LF
Multiple Reads	01-99
Length	01-50
Code Spec	0-4 depend on each code type*.

* Except EAN 128: CodeSpec 1 range 0-1
CodeSpec 2-7 range 01-7F (hex) or 001-127 (dec)

Device Configuration

1. Reading Configuration

Register 90-93

Word\Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
90	Min Read Distance											Start/Stop		S		
91	Min Bar Width							Scan Frequency								
92	Max Code Position							Min Code Position								
93	Absolute Value															

<u>Parameter</u>	<u>Value</u>
Min Read Distance	020-400
Min Bar Width	010-100
Scan Frequency	01 (dec) = '1' (ascii) = 200 Hz. 02 (dec) = '2' (ascii) = 250 Hz. 03 (dec) = '3' (ascii) = 300 Hz. 04 (dec) = '4' (ascii) = 350 Hz. 05 (dec) = '5' (ascii) = 400 Hz. 06 (dec) = '6' (ascii) = 450 Hz. 07 (dec) = '7' (ascii) = 500 Hz. 08 (dec) = '8' (ascii) = 550 Hz. 09 (dec) = '9' (ascii) = 600 Hz. 10 (dec) = ':' (ascii) = 650 Hz. 11 (dec) = ';' (ascii) = 700 Hz. 12 (dec) = '<' (ascii) = 750 Hz. 13 (dec) = '=' (ascii) = 800 Hz.
Start/Stop	03 = 'aa' 04-11
Min Code Position	0-100
Max Code Position	0-100
Segmentation (S)	0 or 1
Absolute Value Idle Zone	1-255

2. Reading pulse

Register 95-98

Word\Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
95									Mode				F	D	T	P
96	Trigger Start								Trigger Stop							
97	Time Out															
98	Timer															

<u>Parameter</u>	<u>Value</u>
Mode	1, 2, 3, 4, 8 10=A
Time Out	1-999
Pulse End (P)	0 or 1
Timer	1-9999
Trigger Single (T)	0 or 1
Trigger Start	01-7F (hex) or 001-127 (dec)
Trigger Stop	01-7F (hex) or 001-127 (dec)
Debounce (D)	0 or 1
First Pulse (F)	0 or 1

3. Switching Outputs

Register 100-109

Word\Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
100	Result Duration 1											Switch Result 1				
101	Result Duration 2											Switch Result 2				
102	Result Duration 3											Switch Result 3				
103	Reference 2				Reference 1				Beeper Vol.				Beeper			
104	Limit1_4				Limit1_3				Limit1_2				Limit1_1			
105	Limit1_8				Limit1_7				Limit1_6				Limit1_5			
106	Limit2_4				Limit2_3				Limit2_2				Limit2_1			
107	Limit2_8				Limit2_7				Limit2_6				Limit2_5			
108	Fault 2				Fault 1				Invert Result							
109	Debounce counter															

Parameter

Value

Switch Result 1, 2, 3	0-25 where 10-25 use for A-P
Beeper	0-25 where 10-25 use for A-P
Result Duration 1,2, 3	0-999
Invert Result	0-7
Beeper Vol.	0-3
Reference 1	0-8
Fault 1	0 or 1
Limit1	0-99999999
Reference 2	0-8
Fault 2	0 or 1
Limit2	0-99999999
Debounce counter	

4. Matchcode Comparison

Register 110-161

Word\Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
110	Match Code 2						F2	A2	Match Code 1						F1	A1
111	Teachin				Counter Reset				Code Type2				Code Type1			
112	Match Code Charater_1 2								Match Code Charater_1 1							
.	.								.							
.	.								.							
.	.								.							
136	Match Code Charater_1 50								Match Code Charater_1 49							
137	Match Code Charater_2 2								Match Code Charater_2 1							
.	.								.							
.	.								.							
.	.								.							
161	Match Code Charater_2 50								Match Code Charater_2 49							

<u>Parameter</u>	<u>Value</u>
Match Code1 Active (A1)	0 or 1
Code Type1	1-9 0=Code Type Irrelevant
Match Code 1	1-50
Filter Match Code1 (F1)	0 or 1
Match Code2 Active (A2)	0 or 1
Code Type2	1-9 0=Code Type Irrelevant
Match Code 2	1-50
Filter Match Code2 (F2)	0 or 1
Teachin	0-2
Counter Reset	0 or 1
Match Code Charater_1 1-50	Ascii Characters
Match Code Charater_2 1-50	Ascii Characters

5. Device Number

Register 163

Word\Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
163	Device Number															

<u>Parameter</u>	<u>Value</u>
Device Number	0-99

6. Master/Slave

Register 164-165

Word\Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
164	Slave No.							Operating Mode								
165	Timeout															

<u>Parameter</u>	<u>Value</u>
Operating Mode	1-3
Timeout	0-9999
Slave No.	1-7

7. Choosing Parameter Profiles

Register 166

Word\Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
166	Profile							Class								

<u>Parameter</u>	<u>Value</u>
Class	0=X
	1=F
	2=H
Profile	0-9

Host Interface

1. Data Format

Register 167

Word\Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
167	Stop Bit				Data/Parity						Baud Rate					

<u>Parameter</u>	<u>Value</u>
Baud Rate	1-9
Data/Parity	1-7
Stop Bit	1-2

2. Output format of reading result

Register 168-213

Word\Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
168	Header 2								Header 1							
.	.								.							
172	Header 10								Header 9							
173	Separator 2								Separator 1							
.	.								.							
177	Separator 10								Separator 9							
178	Terminator 2								Terminator 1							
.	.								.							
182	Terminator 10								Terminator 9							
183	Code Length 2								Code Length 1							
.	.								.							
187	Code Length 10								Code Length 9							
188	Format Mask 2								Format Mask 1							
.	.								.							
212	Format Mask 50								Format Mask 49							
213	Code Sequence															

Parameter

Header 1-10

Separator 1-10

Terminator 1-10

Code Length 1-10

Format Mask 1-50

Code Sequence

Value

01-7F (hex) or 001-127 (dec)

01-7F (hex) or 001-127 (dec)

01-7F (hex) or 001-127 (dec)

0-50

0-92

1-4

3. Error String

Register 215-230

Word\Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
215	Status A				Status 5				Number							
216	Character 2								Character 1							
.	.								.							
230	Character 30								Character 29							

<u>Parameter</u>	<u>Value</u>
Number	0-50
Status 5	0 or 1
Status A	0 or 1
Character 1-30	01-7F (hex) or 001-127 (dec)

4. Interface Protocol

Register 231-234

Word\Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
231	Block Check				Xon/Xoff				Type							
232	Send Stop								Send Start							
233	Receive Stop								Receive Start							
234	Timeout															

<u>Parameter</u>	<u>Value</u>
Type	1-7
Xon/Xoff	0 or 1
Block Check	0 or 1
Send Start	00-7F (hex) or 001-127 (dec)
Send Stop	00-7F (hex) or 001-127 (dec)
Receive Start	00-7F (hex) or 001-127 (dec)
Receive Stop	00-7F (hex) or 001-127 (dec)
Timeout	1-999

5. Test String

Register 235-243

Word\Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
235	String 1								Active							
236	String 3								String 2							
.	.								.							
242	String 15								String 14							
243	Interval															

<u>Parameter</u>	<u>Value</u>
Active	0 or 1
String 1-15	01-7F (hex) or 001-127 (dec)
Interval	1-999

6. Sending points

Register 244-245

Word\Bit	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
244	Minimum Distance													C	S	R
245	Maximum Number								Minimum Number							

<u>Parameter</u>	<u>Value</u>
Result (R)	0 or 1
Separator (S)	0 or 1
Comparison (C)	0 or 1
Minimum Distance	10-999
Minimum Number	1-10
Maximum Number	1-10