

# NX-1710E Addendum (February 9, 2005 -- cksum 9B12)

Only the **modified** locations are reflected in this Addendum.

The NX-1710E has been upgraded to operate with the following 2-wire Wiegand bus interface. Readers must be able to "speak" Wiegand. The following are supported Wiegand formats by default:

- 26-bit standard Wiegand
- 35-bit HID Corporate 1000
- 40-bit with facility code (Casi Rusco 4001)
- 27-bit Tecom ASC
- 37-bit HID 10304
- 40-bit without facility code (Casi Rusco 4002)

## LOCATION 1 READER "B" SCAN FUNCTIONS & OPTIONS

### Segment 3 Reader Options:

LED5 = "On" if LED to extinguish after 2 minutes without a scan. (Note: This option doesn't disable the flashing green LED during card programming.)

## LOCATION 3 PROGRAMMING THE OPTIONS AND DOOR CONTROL PARTITIONS

### Segment 2 Door Options

LED8 = "On" if relay operates normally during off-schedule (outside regular operating hours).

### Segment 5 Wiegand Format Enables:

- |  |  |
|--|--|
| LED1 - "On" if Wiegand Format #1 is enabled. (Default is "On") | LED5 - "On" if Wiegand Format #5 is enabled. (Default is "On") |
| LED2 - "On" if Wiegand Format #2 is enabled. (Default is "On") | LED6 - "On" if Wiegand Format #6 is enabled.                   |
| LED3 - "On" if Wiegand Format #3 is enabled. (Default is "On") | LED7 - "On" if Wiegand Format #7 is enabled.                   |
| LED4 - "On" if Wiegand Format #4 is enabled. (Default is "On") | LED8 - "On" if Wiegand Format #8 is enabled.                   |

## LOCATION 44 CODE ENTRY LOGGING PARTITION

(2 segments of numerical data) This location programs the partition that is logged with the Code Entry message and sent when the following conditions are met:

- An RTE scan function is selected (Location 0, Segment 1/2, Option 8); and
- "RTE from a scanned card is to be logged as Code Entry" is enabled (Location 3, Segment 1, Option 5).

Entering a 0 (zero) will send the lowest valid partition of the reader. Entering 1-16 will send the entered value as the partition. (Default is 0.)

- Segment 1** Code Entry Logging Partition for Reader "A"  
**Segment 2** Code Entry Logging Partition for Reader "B"

## USER-DEFINABLE FORMATS

*The following locations are considered to be advanced programming and should ONLY be used by installers with a thorough understanding of Wiegand Formats. Do not attempt to program these locations if you are not familiar with Wiegand packets.*

## LOCATION 45 WEIGAND FORMAT 1 (STANDARD 26 BIT) – DIGITS & BITS

(5 segments of decimal data) This is the first location used to program the Wiegand Format 1. (Loc 45-57)

- Segment 1** Number of digits in Facility Code  
**Segment 2** Number of digits in Badge Number  
**Segment 3** Number of bits in Facility Code  
**Segment 4** Number of bits in Badge Number  
**Segment 5** Total number of bits in complete format (including parity bits)

## LOCATION 46 WEIGAND FORMAT 1 – BIT DESCRIPTORS (BITS 1-32)

(32 segments of hex data) This location contains the descriptors for bits 1 – 32 of Wiegand Format 1. The available options are: **0=Always Zero; 1=Always One; B=Badge number; D=Parity bit; E=End of format; F=Facility Code bit.** Segment 1 = Bit Descriptor 1; Segment 32 = Bit Descriptor 32.

## LOCATION 47 WEIGAND FORMAT 1 – BIT DESCRIPTORS (BITS 33-64)

(32 segments of hex data) This location contains the descriptors for bits 33 – 64 of Wiegand Format 1. The available options are: **0=Always Zero; 1=Always One; B=Badge number; D=Parity bit; E=End of format; F=Facility Code bit.** Segment 1 = Bit Descriptor 33; Segment 32 = Bit Descriptor 64.

## LOCATION 48 WEIGAND FORMAT 1 – PARITY TYPE 1

(1 segment of decimal data) This location programs the Parity Type 1 for Wiegand Format 1. Available options for this location are **0 = No Parity; 1 = Odd Parity; 2 = Even Parity.** Factory default is 1.

## LOCATION 49 WEIGAND FORMAT 1 – PARITY MASK 1

(8 segments of binary data) This location tells which bits to include for the parity count; and includes the parity bits. It is used in conjunction with Location 48 (Parity Type 1). The factory default is:

Seg 1 12345678	Seg 2 12345678	Seg 3 12345678	Seg 4 -----78	Seg 5 -----	Seg 6 -----	Seg 7 -----	Seg 8 -----
-------------------	-------------------	-------------------	------------------	----------------	----------------	----------------	----------------

## LOCATION 50 WEIGAND FORMAT 1 – PARITY TYPE 2

(1 segment of decimal data) This location programs the Parity Type 2 for Wiegand Format 1. Available options for this location are **0 = No Parity; 1 = Odd Parity; 2 = Even Parity.** Factory default is 2.

## LOCATION 51 WEIGAND FORMAT 1 – PARITY MASK 2

(8 segments of binary data) This location tells which bits to include for the parity count; and includes the parity bits. It is used in conjunction with Location 50 (Parity Type 2). The factory default is:

Seg 1 12345678	Seg 2 ---45678	Seg 3 -----	Seg 4 -----	Seg 5 -----	Seg 6 -----	Seg 7 -----	Seg 8 -----
-------------------	-------------------	----------------	----------------	----------------	----------------	----------------	----------------

## LOCATION 52 WEIGAND FORMAT 1 – PARITY TYPE 3

(1 segment of decimal data) This location programs the Parity Type 3 for Wiegand Format 1. Available options for this location are **0 = No Parity; 1 = Odd Parity; 2 = Even Parity.** Factory default is 0.


## LOCATION 53 WEIGAND FORMAT 1 – PARITY MASK 3

(8 segments of binary data) This location tells which bits to include for the parity count; and includes the parity bits. It is used in conjunction with Location 52 (Parity Type 3). The factory default is:

Seg 1 -----	Seg 2 -----	Seg 3 -----	Seg 4 -----	Seg 5 -----	Seg 6 -----	Seg 7 -----	Seg 8 -----
----------------	----------------	----------------	----------------	----------------	----------------	----------------	----------------

<b>LOCATION 54</b>	<b>WEIGAND FORMAT 1 – PARITY TYPE 4</b>
(1 segment of decimal data) This location programs the Parity Type 4 for Weigand Format 1. Available options for this location are <b>0 = No Parity; 1 = Odd Parity; 2 = Even Parity</b> . Factory default is 0.	
<b>LOCATION 55</b>	<b>WEIGAND FORMAT 1 – PARITY MASK 4</b>
(8 segments of binary data) This location tells which bits to include for the parity count; and includes the parity bits. It is used in conjunction with Location 54 (Parity Type 4). The factory default is:	
Seg 1	Seg 2
-----	-----
Seg 3	Seg 4
-----	-----
Seg 5	Seg 6
-----	-----
Seg 7	Seg 8
-----	-----
<b>LOCATION 56</b>	<b>WEIGAND FORMAT 1 – PARITY TYPE 5</b>
(1 segment of decimal data) This location programs the Parity Type 5 for Weigand Format 1. Available options for this location are <b>0 = No Parity; 1 = Odd Parity; 2 = Even Parity</b> . Factory default is 0.	
<b>LOCATION 57</b>	<b>WEIGAND FORMAT 1 – PARITY MASK 5</b>
(8 segments of binary data) This location tells which bits to include for the parity count; and includes the parity bits. It is used in conjunction with Location 56 (Parity Type 5). The factory default is:	
Seg 1	Seg 2
-----	-----
Seg 3	Seg 4
-----	-----
Seg 5	Seg 6
-----	-----
Seg 7	Seg 8
-----	-----
<b>LOCATIONS 58 – 70</b>	<b>WEIGAND FORMAT 2 (TECOM ASC 27 BIT)</b>
These locations contain the programming for Weigand Format 2. Refer to the instructions for Locations 45 – 57 regarding the Bit Descriptors, Parity Types and Parity Masks 1-5. Factory defaults are in the worksheets.	
<b>LOCATIONS 71 - 83</b>	<b>WEIGAND FORMAT 3 (HID1000)</b>
<b>LOCATIONS 84 – 96</b>	<b>WEIGAND FORMAT 4 (H10304)</b>
<b>LOCATIONS 97 - 109</b>	<b>WEIGAND FORMAT 5 (40 BIT W/FACILITY CODE – CASI 4001)</b>
<b>LOCATIONS 110 - 122</b>	<b>WEIGAND FORMAT 6 (40 BIT W/O FACILITY CODE – CASI 4002)</b>
<b>LOCATIONS 123 - 135</b>	<b>WEIGAND FORMAT 7 (UNDEFINED)</b>
<b>LOCATIONS 136 - 148</b>	<b>WEIGAND FORMAT 8 (UNDEFINED)</b>

## PROGRAMMING WORKSHEETS for Locations 44 - 148

 **Tip:** Defaults are shown in *bold italics*.

SEG	DESCRIPTION
<b>LOCATION 44 – CODE ENTRY LOGGING PARTITION</b>	
1	Code Entry Logging Partition for Reader "A" <i>Default = 0</i>
2	Code Entry Logging Partition for Reader "B" <i>Default = 0</i>

**IMPORTANT:** THE FOLLOWING LOCATIONS ARE CONSIDERED ADVANCED PROGRAMMING AND SHOULD ONLY BE USED BY INSTALLERS WITH A THOROUGH UNDERSTANDING OF WEIGAND FORMATS. DO NOT ATTEMPT TO PROGRAM THESE LOCATIONS IF YOU ARE NOT FAMILIAR WITH WEIGAND PACKETS.

<b>WEIGAND FORMAT 1</b>			
<b>LOCATION 45 – WIEGAND FORMAT 1 (DIGITS &amp; BITS) (DECIMAL DATA)</b>			
SEG	DESCRIPTION	DEFAULT	DATA
1	Number of Digits in Facility Code	<i>5</i>	
2	Number of Digits in Badge Number	<i>5</i>	
3	Number of Bits in Facility Code	<i>8</i>	
4	Number of Bits in Badge Number	<i>16</i>	
5	Total Number of Bits in Complete Weigand Format (including parity bits)	<i>26</i>	
<b>LOCATION 46 – WIEGAND FORMAT 1 (BIT DESCRIPTOR 1 - 32) HEX DATA</b>			
0 = Always Zero; 1 = Always One; B = Badge Number Bit; D = Parity Bit; E = End of Format; F = Facility Code Bit			
SEG	DESCRIPTION	DEFAULT	DATA
1	Bit 1 Descriptor	<i>D</i>	
2	Bit 2 Descriptor	<i>F</i>	
3	Bit 3 Descriptor	<i>F</i>	
4	Bit 4 Descriptor	<i>F</i>	
5	Bit 5 Descriptor	<i>F</i>	
6	Bit 6 Descriptor	<i>F</i>	
7	Bit 7 Descriptor	<i>F</i>	
8	Bit 8 Descriptor	<i>F</i>	
9	Bit 9 Descriptor	<i>F</i>	
10	Bit 10 Descriptor	<i>B</i>	
11	Bit 11 Descriptor	<i>B</i>	
12	Bit 12 Descriptor	<i>B</i>	
13	Bit 13 Descriptor	<i>B</i>	
14	Bit 14 Descriptor	<i>B</i>	
15	Bit 15 Descriptor	<i>B</i>	
16	Bit 16 Descriptor	<i>B</i>	
17	Bit 17 Descriptor	<i>B</i>	
18	Bit 18 Descriptor	<i>B</i>	
19	Bit 19 Descriptor	<i>B</i>	
20	Bit 20 Descriptor	<i>B</i>	
21	Bit 21 Descriptor	<i>B</i>	
22	Bit 22 Descriptor	<i>B</i>	
23	Bit 23 Descriptor	<i>B</i>	
24	Bit 24 Descriptor	<i>B</i>	
25	Bit 25 Descriptor	<i>B</i>	
26	Bit 26 Descriptor	<i>D</i>	
27	Bit 27 Descriptor	<i>E</i>	
28	Bit 28 Descriptor	<i>E</i>	
29	Bit 29 Descriptor	<i>E</i>	
30	Bit 30 Descriptor	<i>E</i>	
31	Bit 31 Descriptor	<i>E</i>	
32	Bit 32 Descriptor	<i>E</i>	
<b>LOCATION 47 – WIEGAND FORMAT 1 (BIT DESCRIPTOR 33 - 64)</b>			
1	Bit 33 Descriptor	<i>E</i>	
2	Bit 34 Descriptor	<i>E</i>	
3	Bit 35 Descriptor	<i>E</i>	
4	Bit 36 Descriptor	<i>E</i>	
17	Bit 49 Descriptor	<i>E</i>	
18	Bit 50 Descriptor	<i>E</i>	
19	Bit 51 Descriptor	<i>E</i>	
20	Bit 52 Descriptor	<i>E</i>	

5	Bit 37 Descriptor	E	21	Bit 53 Descriptor	E		
6	Bit 38 Descriptor	E	22	Bit 54 Descriptor	E		
7	Bit 39 Descriptor	E	23	Bit 55 Descriptor	E		
8	Bit 40 Descriptor	E	24	Bit 56 Descriptor	E		
9	Bit 41 Descriptor	E	25	Bit 57 Descriptor	E		
10	Bit 42 Descriptor	E	26	Bit 58 Descriptor	E		
11	Bit 43 Descriptor	E	27	Bit 59 Descriptor	E		
12	Bit 44 Descriptor	E	28	Bit 60 Descriptor	E		
13	Bit 45 Descriptor	E	29	Bit 61 Descriptor	E		
14	Bit 46 Descriptor	E	30	Bit 62 Descriptor	E		
15	Bit 47 Descriptor	E	31	Bit 63 Descriptor	E		
16	Bit 48 Descriptor	E	32	Bit 64 Descriptor	E		
<b>LOCATION 48 – WIEGAND FORMAT 1 (PARITY TYPE 1)</b>			<b>0=No Parity; 1=Odd Parity; 2=Even Parity</b>				
1	Parity Type 1	1					
<b>LOCATION 49 – WIEGAND FORMAT 1 (PARITY MASK 1)</b>							
1	Parity Mask 1	12345678	5	Parity Mask 5	-----		
2	Parity Mask 2	12345678	6	Parity Mask 6	-----		
3	Parity Mask 3	12345678	7	Parity Mask 7	-----		
4	Parity Mask 4	-----78	8	Parity Mask 8	-----		
<b>LOCATION 50 – WIEGAND FORMAT 1 (PARITY TYPE 2)</b>			<b>0=No Parity; 1=Odd Parity; 2=Even Parity</b>				
1	Parity Type 2	2					
<b>LOCATION 51 – WIEGAND FORMAT 1 (PARITY MASK 2)</b>							
1	Parity Mask 1	12345678	5	Parity Mask 5	-----		
2	Parity Mask 2	---45678	6	Parity Mask 6	-----		
3	Parity Mask 3	-----	7	Parity Mask 7	-----		
4	Parity Mask 4	-----	8	Parity Mask 8	-----		
<b>LOCATION 52 – WIEGAND FORMAT 1 (PARITY TYPE 3)</b>			<b>0=No Parity; 1=Odd Parity; 2=Even Parity</b>				
1	Parity Type 3	0					
<b>LOCATION 53 – WIEGAND FORMAT 1 (PARITY MASK 3)</b>							
1	Parity Mask 1	-----	5	Parity Mask 5	-----		
2	Parity Mask 2	-----	6	Parity Mask 6	-----		
3	Parity Mask 3	-----	7	Parity Mask 7	-----		
4	Parity Mask 4	-----	8	Parity Mask 8	-----		
<b>LOCATION 54 – WIEGAND FORMAT 1 (PARITY TYPE 4)</b>							
1	Parity Type 4	0					
<b>LOCATION 55 – WIEGAND FORMAT 1 (PARITY MASK 4)</b>							
1	Parity Mask 1	-----	5	Parity Mask 5	-----		
2	Parity Mask 2	-----	6	Parity Mask 6	-----		
3	Parity Mask 3	-----	7	Parity Mask 7	-----		
4	Parity Mask 4	-----	8	Parity Mask 8	-----		
<b>LOCATION 56 – WIEGAND FORMAT 1 (PARITY TYPE 5)</b>							
1	Parity Type 5	0					
<b>LOCATION 57 – WIEGAND FORMAT 1 (PARITY MASK 5)</b>							
1	Parity Mask 1	-----	5	Parity Mask 5	-----		
2	Parity Mask 2	-----	6	Parity Mask 6	-----		
3	Parity Mask 3	-----	7	Parity Mask 7	-----		
4	Parity Mask 4	-----	8	Parity Mask 8	-----		
<b>WIEGAND FORMAT 2</b>							
<b>LOCATION 58 – WIEGAND FORMAT 2 (DIGITS &amp; BITS) (DECIMAL DATA)</b>							
<b>SEG</b>	<b>DESCRIPTION</b>	<b>DEFAULT</b>	<b>DATA</b>				
1	Number of Digits in Facility Code	0					
2	Number of Digits in Badge Number	9					
3	Number of Bits in Facility Code	0					
4	Number of Bits in Badge Number	27					
5	Total Number of Bits in Complete Weigand Format (including parity bits)	27					
<b>LOCATION 59 – WIEGAND FORMAT 2 (BIT DESCRIPTOR 1 - 32) HEX DATA</b>							
0 = Always Zero; 1 = Always One; B = Badge Number Bit; D = Parity Bit; E = End of Format; F = Facility Code Bit							
<b>SEG</b>	<b>DESCRIPTION</b>	<b>DEFAULT</b>	<b>DATA</b>	<b>SEG</b>	<b>DESCRIPTION</b>	<b>DEFAULT</b>	<b>DATA</b>
1	Bit 1 Descriptor	B		17	Bit 17 Descriptor	B	
2	Bit 2 Descriptor	B		18	Bit 18 Descriptor	B	
3	Bit 3 Descriptor	B		19	Bit 19 Descriptor	B	
4	Bit 4 Descriptor	B		20	Bit 20 Descriptor	B	
5	Bit 5 Descriptor	B		21	Bit 21 Descriptor	B	
6	Bit 6 Descriptor	B		22	Bit 22 Descriptor	B	
7	Bit 7 Descriptor	B		23	Bit 23 Descriptor	B	
8	Bit 8 Descriptor	B		24	Bit 24 Descriptor	B	
9	Bit 9 Descriptor	B		25	Bit 25 Descriptor	B	
10	Bit 10 Descriptor	B		26	Bit 26 Descriptor	B	
11	Bit 11 Descriptor	B		27	Bit 27 Descriptor	B	
12	Bit 12 Descriptor	B		28	Bit 28 Descriptor	E	
13	Bit 13 Descriptor	B		29	Bit 29 Descriptor	E	
14	Bit 14 Descriptor	B		30	Bit 30 Descriptor	E	
15	Bit 15 Descriptor	B		31	Bit 31 Descriptor	E	
16	Bit 16 Descriptor	B		32	Bit 32 Descriptor	E	
<b>LOCATION 60 – WIEGAND FORMAT 2 (BIT DESCRIPTOR 33 - 64)</b>							
1	Bit 33 Descriptor	E		17	Bit 49 Descriptor	E	
2	Bit 34 Descriptor	E		18	Bit 50 Descriptor	E	
3	Bit 35 Descriptor	E		19	Bit 51 Descriptor	E	
4	Bit 36 Descriptor	E		20	Bit 52 Descriptor	E	
5	Bit 37 Descriptor	E		21	Bit 53 Descriptor	E	
6	Bit 38 Descriptor	E		22	Bit 54 Descriptor	E	
7	Bit 39 Descriptor	E		23	Bit 55 Descriptor	E	
8	Bit 40 Descriptor	E		24	Bit 56 Descriptor	E	
9	Bit 41 Descriptor	E		25	Bit 57 Descriptor	E	
10	Bit 42 Descriptor	E		26	Bit 58 Descriptor	E	
11	Bit 43 Descriptor	E		27	Bit 59 Descriptor	E	
12	Bit 44 Descriptor	E		28	Bit 60 Descriptor	E	
13	Bit 45 Descriptor	E		29	Bit 61 Descriptor	E	

14	Bit 46 Descriptor	<i>E</i>		30	Bit 62 Descriptor	<i>E</i>	
15	Bit 47 Descriptor	<i>E</i>		31	Bit 63 Descriptor	<i>E</i>	
16	Bit 48 Descriptor	<i>E</i>		32	Bit 64 Descriptor	<i>E</i>	
<b>LOCATION 61 – WIEGAND FORMAT 2 (PARITY TYPE 1)</b>				<b>0=No Parity; 1=Odd Parity; 2=Even Parity</b>			
1	Parity Type 1	<i>0</i>					
<b>LOCATION 62 – WIEGAND FORMAT 2 (PARITY MASK 1)</b>							
1	Parity Mask 1	-----		5	Parity Mask 5	-----	
2	Parity Mask 2	-----		6	Parity Mask 6	-----	
3	Parity Mask 3	-----		7	Parity Mask 7	-----	
4	Parity Mask 4	-----		8	Parity Mask 8	-----	
<b>LOCATION 63 – WIEGAND FORMAT 2 (PARITY TYPE 2)</b>				<b>0=No Parity; 1=Odd Parity; 2=Even Parity</b>			
1	Parity Type 2	<i>0</i>					
<b>LOCATION 64 – WIEGAND FORMAT 2 (PARITY MASK 2)</b>							
1	Parity Mask 1	-----		5	Parity Mask 5	-----	
2	Parity Mask 2	-----		6	Parity Mask 6	-----	
3	Parity Mask 3	-----		7	Parity Mask 7	-----	
4	Parity Mask 4	-----		8	Parity Mask 8	-----	
<b>LOCATION 65 – WIEGAND FORMAT 2 (PARITY TYPE 3)</b>				<b>0=No Parity; 1=Odd Parity; 2=Even Parity</b>			
1	Parity Type 3	<i>0</i>					
<b>LOCATION 66 – WIEGAND FORMAT 2 (PARITY MASK 3)</b>							
1	Parity Mask 1	-----		5	Parity Mask 5	-----	
2	Parity Mask 2	-----		6	Parity Mask 6	-----	
3	Parity Mask 3	-----		7	Parity Mask 7	-----	
4	Parity Mask 4	-----		8	Parity Mask 8	-----	
<b>LOCATION 67 – WIEGAND FORMAT 2 (PARITY TYPE 4)</b>							
1	Parity Type 4	<i>0</i>					
<b>LOCATION 68 – WIEGAND FORMAT 2 (PARITY MASK 4)</b>							
1	Parity Mask 1	-----		5	Parity Mask 5	-----	
2	Parity Mask 2	-----		6	Parity Mask 6	-----	
3	Parity Mask 3	-----		7	Parity Mask 7	-----	
4	Parity Mask 4	-----		8	Parity Mask 8	-----	
<b>LOCATION 69 – WIEGAND FORMAT 2 (PARITY TYPE 5)</b>							
1	Parity Type 5	<i>0</i>					
<b>LOCATION 70 – WIEGAND FORMAT 2 (PARITY MASK 5)</b>							
1	Parity Mask 1	-----		5	Parity Mask 5	-----	
2	Parity Mask 2	-----		6	Parity Mask 6	-----	
3	Parity Mask 3	-----		7	Parity Mask 7	-----	
4	Parity Mask 4	-----		8	Parity Mask 8	-----	
<b>WIEGAND FORMAT 3</b>							
<b>LOCATION 71 – WIEGAND FORMAT 3 (DIGITS &amp; BITS) (DECIMAL DATA)</b>							
	<b>DESCRIPTION</b>		<b>DEFAULT</b>			<b>DATA</b>	
1	Number of Digits in Facility Code		<i>4</i>				
2	Number of Digits in Badge Number		<i>7</i>				
3	Number of Bits in Facility Code		<i>12</i>				
4	Number of Bits in Badge Number		<i>20</i>				
5	Total Number of Bits in Complete Weigand Format (including parity bits)		<i>35</i>				
<b>LOCATION 72 – WIEGAND FORMAT 3 (BIT DESCRIPTOR 1 - 32) HEX DATA</b>							
<b>0 = Always Zero; 1 = Always One; B = Badge Number Bit; D = Parity Bit; E = End of Format; F = Facility Code Bit</b>							
<b>SEG</b>	<b>DESCRIPTION</b>	<b>DEFAULT</b>	<b>DATA</b>	<b>SEG</b>	<b>DESCRIPTION</b>	<b>DEFAULT</b>	<b>DATA</b>
1	Bit 1 Descriptor	<i>D</i>		17	Bit 17 Descriptor	<i>B</i>	
2	Bit 2 Descriptor	<i>D</i>		18	Bit 18 Descriptor	<i>B</i>	
3	Bit 3 Descriptor	<i>F</i>		19	Bit 19 Descriptor	<i>B</i>	
4	Bit 4 Descriptor	<i>F</i>		20	Bit 20 Descriptor	<i>B</i>	
5	Bit 5 Descriptor	<i>F</i>		21	Bit 21 Descriptor	<i>B</i>	
6	Bit 6 Descriptor	<i>F</i>		22	Bit 22 Descriptor	<i>B</i>	
7	Bit 7 Descriptor	<i>F</i>		23	Bit 23 Descriptor	<i>B</i>	
8	Bit 8 Descriptor	<i>F</i>		24	Bit 24 Descriptor	<i>B</i>	
9	Bit 9 Descriptor	<i>F</i>		25	Bit 25 Descriptor	<i>B</i>	
10	Bit 10 Descriptor	<i>F</i>		26	Bit 26 Descriptor	<i>B</i>	
11	Bit 11 Descriptor	<i>F</i>		27	Bit 27 Descriptor	<i>B</i>	
12	Bit 12 Descriptor	<i>F</i>		28	Bit 28 Descriptor	<i>B</i>	
13	Bit 13 Descriptor	<i>F</i>		29	Bit 29 Descriptor	<i>B</i>	
14	Bit 14 Descriptor	<i>F</i>		30	Bit 30 Descriptor	<i>B</i>	
15	Bit 15 Descriptor	<i>B</i>		31	Bit 31 Descriptor	<i>B</i>	
16	Bit 16 Descriptor	<i>B</i>		32	Bit 32 Descriptor	<i>B</i>	
<b>LOCATION 73 – WIEGAND FORMAT 3 (BIT DESCRIPTOR 33 - 64)</b>							
<b>SEG</b>	<b>DESCRIPTION</b>	<b>DEFAULT</b>	<b>DATA</b>	<b>SEG</b>	<b>DESCRIPTION</b>	<b>DEFAULT</b>	<b>DATA</b>
1	Bit 33 Descriptor	<i>B</i>		17	Bit 49 Descriptor	<i>E</i>	
2	Bit 34 Descriptor	<i>B</i>		18	Bit 50 Descriptor	<i>E</i>	
3	Bit 35 Descriptor	<i>D</i>		19	Bit 51 Descriptor	<i>E</i>	
4	Bit 36 Descriptor	<i>E</i>		20	Bit 52 Descriptor	<i>E</i>	
5	Bit 37 Descriptor	<i>E</i>		21	Bit 53 Descriptor	<i>E</i>	
6	Bit 38 Descriptor	<i>E</i>		22	Bit 54 Descriptor	<i>E</i>	
7	Bit 39 Descriptor	<i>E</i>		23	Bit 55 Descriptor	<i>E</i>	
8	Bit 40 Descriptor	<i>E</i>		24	Bit 56 Descriptor	<i>E</i>	
9	Bit 41 Descriptor	<i>E</i>		25	Bit 57 Descriptor	<i>E</i>	
10	Bit 42 Descriptor	<i>E</i>		26	Bit 58 Descriptor	<i>E</i>	
11	Bit 43 Descriptor	<i>E</i>		27	Bit 59 Descriptor	<i>E</i>	
12	Bit 44 Descriptor	<i>E</i>		28	Bit 60 Descriptor	<i>E</i>	
13	Bit 45 Descriptor	<i>E</i>		29	Bit 61 Descriptor	<i>E</i>	
14	Bit 46 Descriptor	<i>E</i>		30	Bit 62 Descriptor	<i>E</i>	
15	Bit 47 Descriptor	<i>E</i>		31	Bit 63 Descriptor	<i>E</i>	
16	Bit 48 Descriptor	<i>E</i>		32	Bit 64 Descriptor	<i>E</i>	
<b>LOCATION 74 – WIEGAND FORMAT 3 (PARITY TYPE 1)</b>				<b>0=No Parity; 1=Odd Parity; 2=Even Parity</b>			
1	Parity Type 1	<i>1</i>					
<b>LOCATION 75 – WIEGAND FORMAT 3 (PARITY MASK 1)</b>							
1	Parity Mask 1	<i>12345678</i>		5	Parity Mask 5	<i>-----678</i>	
2	Parity Mask 2	<i>12345678</i>		6	Parity Mask 6	<i>-----</i>	

3	Parity Mask 3	12345678	7	Parity Mask 7	-----	
4	Parity Mask 4	12345678	8	Parity Mask 8	-----	
<b>LOCATION 76 – WIEGAND FORMAT 3 (PARITY TYPE 2)</b>			<b>0=No Parity; 1=Odd Parity; 2=Even Parity</b>			
1	Parity Type 2	1				
<b>LOCATION 77 – WIEGAND FORMAT 3 (PARITY MASK 2)</b>						
1	Parity Mask 1	1-34-67-	5	Parity Mask 5	-----6-8	
2	Parity Mask 2	-23-56-8	6	Parity Mask 6	-----	
3	Parity Mask 3	12-45-78	7	Parity Mask 7	-----	
4	Parity Mask 4	1-34-67-	8	Parity Mask 8	-----	
<b>LOCATION 78 – WIEGAND FORMAT 3 (PARITY TYPE 3)</b>			<b>0=No Parity; 1=Odd Parity; 2=Even Parity</b>			
1	Parity Type 3	2				
<b>LOCATION 79 – WIEGAND FORMAT 3 (PARITY MASK 3)</b>						
1	Parity Mask 1	-23-567-	5	Parity Mask 5	-----78	
2	Parity Mask 2	12-45-78	6	Parity Mask 6	-----	
3	Parity Mask 3	1-34-67-	7	Parity Mask 7	-----	
4	Parity Mask 4	-23-56-8	8	Parity Mask 8	-----	
<b>LOCATION 80 – WIEGAND FORMAT 3 (PARITY TYPE 4)</b>						
1	Parity Type 4	0				
<b>LOCATION 81 – WIEGAND FORMAT 3 (PARITY MASK 4)</b>						
1	Parity Mask 1	-----	5	Parity Mask 5	-----	
2	Parity Mask 2	-----	6	Parity Mask 6	-----	
3	Parity Mask 3	-----	7	Parity Mask 7	-----	
4	Parity Mask 4	-----	8	Parity Mask 8	-----	
<b>LOCATION 82 – WIEGAND FORMAT 3 (PARITY TYPE 5)</b>						
1	Parity Type 5	0				
<b>LOCATION 83 – WIEGAND FORMAT 3 (PARITY MASK 5)</b>						
1	Parity Mask 1	-----	5	Parity Mask 5	-----	
2	Parity Mask 2	-----	6	Parity Mask 6	-----	
3	Parity Mask 3	-----	7	Parity Mask 7	-----	
4	Parity Mask 4	-----	8	Parity Mask 8	-----	
<b>WIEGAND FORMAT 4</b>						
<b>LOCATION 84 – WIEGAND FORMAT 4 (DIGITS &amp; BITS) (DECIMAL DATA)</b>						
	<b>DESCRIPTION</b>	<b>DEFAULT</b>	<b>DATA</b>			
1	Number of Digits in Facility Code	5				
2	Number of Digits in Badge Number	6				
3	Number of Bits in Facility Code	16				
4	Number of Bits in Badge Number	19				
5	Total Number of Bits in Complete Weigand Format (including parity bits)	37				
<b>LOCATION 85 – WIEGAND FORMAT 4 (BIT DESCRIPTOR 1 - 32) HEX DATA</b>						
0 = Always Zero; 1 = Always One; B = Badge Number Bit; D = Parity Bit; E = End of Format; F = Facility Code Bit						
<b>SEG</b>	<b>DESCRIPTION</b>	<b>DEFAULT</b>	<b>DATA</b>	<b>SEG</b>	<b>DESCRIPTION</b>	<b>DEFAULT</b>
1	Bit 1 Descriptor	D		17	Bit 17 Descriptor	F
2	Bit 2 Descriptor	F		18	Bit 18 Descriptor	B
3	Bit 3 Descriptor	F		19	Bit 19 Descriptor	B
4	Bit 4 Descriptor	F		20	Bit 20 Descriptor	B
5	Bit 5 Descriptor	F		21	Bit 21 Descriptor	B
6	Bit 6 Descriptor	F		22	Bit 22 Descriptor	B
7	Bit 7 Descriptor	F		23	Bit 23 Descriptor	B
8	Bit 8 Descriptor	F		24	Bit 24 Descriptor	B
9	Bit 9 Descriptor	F		25	Bit 25 Descriptor	B
10	Bit 10 Descriptor	F		26	Bit 26 Descriptor	B
11	Bit 11 Descriptor	F		27	Bit 27 Descriptor	B
12	Bit 12 Descriptor	F		28	Bit 28 Descriptor	B
13	Bit 13 Descriptor	F		29	Bit 29 Descriptor	B
14	Bit 14 Descriptor	F		30	Bit 30 Descriptor	B
15	Bit 15 Descriptor	F		31	Bit 31 Descriptor	B
16	Bit 16 Descriptor	F		32	Bit 32 Descriptor	B
<b>LOCATION 86 – WIEGAND FORMAT 4 (BIT DESCRIPTOR 33 - 64)</b>						
1	Bit 33 Descriptor	B		17	Bit 49 Descriptor	E
2	Bit 34 Descriptor	B		18	Bit 50 Descriptor	E
3	Bit 35 Descriptor	B		19	Bit 51 Descriptor	E
4	Bit 36 Descriptor	B		20	Bit 52 Descriptor	E
5	Bit 37 Descriptor	D		21	Bit 53 Descriptor	E
6	Bit 38 Descriptor	E		22	Bit 54 Descriptor	E
7	Bit 39 Descriptor	E		23	Bit 55 Descriptor	E
8	Bit 40 Descriptor	E		24	Bit 56 Descriptor	E
9	Bit 41 Descriptor	E		25	Bit 57 Descriptor	E
10	Bit 42 Descriptor	E		26	Bit 58 Descriptor	E
11	Bit 43 Descriptor	E		27	Bit 59 Descriptor	E
12	Bit 44 Descriptor	E		28	Bit 60 Descriptor	E
13	Bit 45 Descriptor	E		29	Bit 61 Descriptor	E
14	Bit 46 Descriptor	E		30	Bit 62 Descriptor	E
15	Bit 47 Descriptor	E		31	Bit 63 Descriptor	E
16	Bit 48 Descriptor	E		32	Bit 64 Descriptor	E
<b>LOCATION 87 – WIEGAND FORMAT 4 (PARITY TYPE 1)</b>			<b>0=No Parity; 1=Odd Parity; 2=Even Parity</b>			
1	Parity Type 1	1				
<b>LOCATION 88 – WIEGAND FORMAT 4 (PARITY MASK 1)</b>						
1	Parity Mask 1	-----	5	Parity Mask 5	----45678	
2	Parity Mask 2	-----	6	Parity Mask 6	-----	
3	Parity Mask 3	123456--	7	Parity Mask 7	-----	
4	Parity Mask 4	12345678	8	Parity Mask 8	-----	
<b>LOCATION 89 – WIEGAND FORMAT 4 (PARITY TYPE 2)</b>			<b>0=No Parity; 1=Odd Parity; 2=Even Parity</b>			
1	Parity Type 2	2				
<b>LOCATION 90 – WIEGAND FORMAT 4 (PARITY MASK 2)</b>						
1	Parity Mask 1	12345678	5	Parity Mask 5	-----	
2	Parity Mask 2	12345678	6	Parity Mask 6	-----	
3	Parity Mask 3	-----678	7	Parity Mask 7	-----	
4	Parity Mask 4	-----	8	Parity Mask 8	-----	

<b>LOCATION 91 – WIEGAND FORMAT 4 (PARITY TYPE 3)</b>				0=No Parity; 1=Odd Parity; 2=Even Parity			
1	Parity Type 3	0					
<b>LOCATION 92 – WIEGAND FORMAT 4 (PARITY MASK 3)</b>							
1	Parity Mask 1	-----		5	Parity Mask 5	-----	
2	Parity Mask 2	-----		6	Parity Mask 6	-----	
3	Parity Mask 3	-----		7	Parity Mask 7	-----	
4	Parity Mask 4	-----		8	Parity Mask 8	-----	
<b>LOCATION 93 – WIEGAND FORMAT 4 (PARITY TYPE 4)</b>							
1	Parity Type 4	0					
<b>LOCATION 94 – WIEGAND FORMAT 4 (PARITY MASK 4)</b>							
1	Parity Mask 1	-----		5	Parity Mask 5	-----	
2	Parity Mask 2	-----		6	Parity Mask 6	-----	
3	Parity Mask 3	-----		7	Parity Mask 7	-----	
4	Parity Mask 4	-----		8	Parity Mask 8	-----	
<b>LOCATION 95 – WIEGAND FORMAT 4 (PARITY TYPE 5)</b>							
1	Parity Type 5	0					
<b>LOCATION 96 – WIEGAND FORMAT 4 (PARITY MASK 5)</b>							
1	Parity Mask 1	-----		5	Parity Mask 5	-----	
2	Parity Mask 2	-----		6	Parity Mask 6	-----	
3	Parity Mask 3	-----		7	Parity Mask 7	-----	
4	Parity Mask 4	-----		8	Parity Mask 8	-----	
<b>WIEGAND FORMAT 5</b>							
<b>LOCATION 97 – WIEGAND FORMAT 5 (DIGITS &amp; BITS) (DECIMAL DATA)</b>							
	<b>DESCRIPTION</b>		<b>DEFAULT</b>				<b>DATA</b>
1	Number of Digits in Facility Code		6				
2	Number of Digits in Badge Number		6				
3	Number of Bits in Facility Code		19				
4	Number of Bits in Badge Number		19				
5	Total Number of Bits in Complete Weigand Format (including parity bits)		40				
<b>LOCATION 98 – WIEGAND FORMAT 5 (BIT DESCRIPTOR 1 - 32) HEX DATA</b>							
0 = Always Zero; 1 = Always One; B = Badge Number Bit; D = Parity Bit; E = End of Format; F = Facility Code Bit							
<b>SEG</b>	<b>DESCRIPTION</b>	<b>DEFAULT</b>	<b>DATA</b>	<b>SEG</b>	<b>DESCRIPTION</b>	<b>DEFAULT</b>	<b>DATA</b>
1	Bit 1 Descriptor	D		17	Bit 17 Descriptor	F	
2	Bit 2 Descriptor	F		18	Bit 18 Descriptor	F	
3	Bit 3 Descriptor	F		19	Bit 19 Descriptor	F	
4	Bit 4 Descriptor	F		20	Bit 20 Descriptor	F	
5	Bit 5 Descriptor	F		21	Bit 21 Descriptor	B	
6	Bit 6 Descriptor	F		22	Bit 22 Descriptor	B	
7	Bit 7 Descriptor	F		23	Bit 23 Descriptor	B	
8	Bit 8 Descriptor	F		24	Bit 24 Descriptor	B	
9	Bit 9 Descriptor	F		25	Bit 25 Descriptor	B	
10	Bit 10 Descriptor	F		26	Bit 26 Descriptor	B	
11	Bit 11 Descriptor	F		27	Bit 27 Descriptor	B	
12	Bit 12 Descriptor	F		28	Bit 28 Descriptor	B	
13	Bit 13 Descriptor	F		29	Bit 29 Descriptor	B	
14	Bit 14 Descriptor	F		30	Bit 30 Descriptor	B	
15	Bit 15 Descriptor	F		31	Bit 31 Descriptor	B	
16	Bit 16 Descriptor	F		32	Bit 32 Descriptor	B	
<b>LOCATION 99 – WIEGAND FORMAT 5 (BIT DESCRIPTOR 33 - 64)</b>							
1	Bit 33 Descriptor	B		17	Bit 49 Descriptor	E	
2	Bit 34 Descriptor	B		18	Bit 50 Descriptor	E	
3	Bit 35 Descriptor	B		19	Bit 51 Descriptor	E	
4	Bit 36 Descriptor	B		20	Bit 52 Descriptor	E	
5	Bit 37 Descriptor	B		21	Bit 53 Descriptor	E	
6	Bit 38 Descriptor	B		22	Bit 54 Descriptor	E	
7	Bit 39 Descriptor	B		23	Bit 55 Descriptor	E	
8	Bit 40 Descriptor	D		24	Bit 56 Descriptor	E	
9	Bit 41 Descriptor	E		25	Bit 57 Descriptor	E	
10	Bit 42 Descriptor	E		26	Bit 58 Descriptor	E	
11	Bit 43 Descriptor	E		27	Bit 59 Descriptor	E	
12	Bit 44 Descriptor	E		28	Bit 60 Descriptor	E	
13	Bit 45 Descriptor	E		29	Bit 61 Descriptor	E	
14	Bit 46 Descriptor	E		30	Bit 62 Descriptor	E	
15	Bit 47 Descriptor	E		31	Bit 63 Descriptor	E	
16	Bit 48 Descriptor	E		32	Bit 64 Descriptor	E	
<b>LOCATION 100 – WIEGAND FORMAT 5 (PARITY TYPE 1)</b>				0=No Parity; 1=Odd Parity; 2=Even Parity			
1	Parity Type 1	1					
<b>LOCATION 101 – WIEGAND FORMAT 5 (PARITY MASK 1)</b>							
1	Parity Mask 1	12345678		5	Parity Mask 5	12345678	
2	Parity Mask 2	12345678		6	Parity Mask 6	-----	
3	Parity Mask 3	12345678		7	Parity Mask 7	-----	
4	Parity Mask 4	12345678		8	Parity Mask 8	-----	
<b>LOCATION 102 – WIEGAND FORMAT 5 (PARITY TYPE 2)</b>				0=No Parity; 1=Odd Parity; 2=Even Parity			
1	Parity Type 2	2					
<b>LOCATION 103 – WIEGAND FORMAT 5 (PARITY MASK 2)</b>							
1	Parity Mask 1	12345678		5	Parity Mask 5	-----	
2	Parity Mask 2	12345678		6	Parity Mask 6	-----	
3	Parity Mask 3	----5678		7	Parity Mask 7	-----	
4	Parity Mask 4	-----		8	Parity Mask 8	-----	
<b>LOCATION 104 – WIEGAND FORMAT 5 (PARITY TYPE 3)</b>				0=No Parity; 1=Odd Parity; 2=Even Parity			
1	Parity Type 3	0					
<b>LOCATION 105 – WIEGAND FORMAT 5 (PARITY MASK 3)</b>							
1	Parity Mask 1	-----		5	Parity Mask 5	-----	
2	Parity Mask 2	-----		6	Parity Mask 6	-----	
3	Parity Mask 3	-----		7	Parity Mask 7	-----	
4	Parity Mask 4	-----		8	Parity Mask 8	-----	
<b>LOCATION 106 – WIEGAND FORMAT 5 (PARITY TYPE 4)</b>							
1	Parity Type 4	0					

<b>LOCATION 107 – WIEGAND FORMAT 5 (PARITY MASK 4)</b>							
1	Parity Mask 1	-----		5	Parity Mask 5	-----	
2	Parity Mask 2	-----		6	Parity Mask 6	-----	
3	Parity Mask 3	-----		7	Parity Mask 7	-----	
4	Parity Mask 4	-----		8	Parity Mask 8	-----	
<b>LOCATION 108 – WIEGAND FORMAT 5 (PARITY TYPE 5)</b>							
1	Parity Type 5	0					
<b>LOCATION 109 – WIEGAND FORMAT 5 (PARITY MASK 5)</b>							
1	Parity Mask 1	-----		5	Parity Mask 5	-----	
2	Parity Mask 2	-----		6	Parity Mask 6	-----	
3	Parity Mask 3	-----		7	Parity Mask 7	-----	
4	Parity Mask 4	-----		8	Parity Mask 8	-----	
<b>WIEGAND FORMAT 6</b>							
<b>LOCATION 110 – WIEGAND FORMAT 6 (DIGITS &amp; BITS) (DECIMAL DATA)</b>							
	<b>DESCRIPTION</b>			<b>DEFAULT</b>			<b>DATA</b>
1	Number of Digits in Facility Code			0			
2	Number of Digits in Badge Number			11			
3	Number of Bits in Facility Code			0			
4	Number of Bits in Badge Number			38			
5	Total Number of Bits in Complete Weigand Format (including parity bits)			40			
<b>LOCATION 111 – WIEGAND FORMAT 6 (BIT DESCRIPTOR 1 - 32) HEX DATA</b>							
0 = Always Zero; 1 = Always One; B = Badge Number Bit; D = Parity Bit; E = End of Format; F = Facility Code Bit							
<b>SEG</b>	<b>DESCRIPTION</b>	<b>DEFAULT</b>	<b>DATA</b>	<b>SEG</b>	<b>DESCRIPTION</b>	<b>DEFAULT</b>	<b>DATA</b>
1	Bit 1 Descriptor	D		17	Bit 17 Descriptor	B	
2	Bit 2 Descriptor	B		18	Bit 18 Descriptor	B	
3	Bit 3 Descriptor	B		19	Bit 19 Descriptor	B	
4	Bit 4 Descriptor	B		20	Bit 20 Descriptor	B	
5	Bit 5 Descriptor	B		21	Bit 21 Descriptor	B	
6	Bit 6 Descriptor	B		22	Bit 22 Descriptor	B	
7	Bit 7 Descriptor	B		23	Bit 23 Descriptor	B	
8	Bit 8 Descriptor	B		24	Bit 24 Descriptor	B	
9	Bit 9 Descriptor	B		25	Bit 25 Descriptor	B	
10	Bit 10 Descriptor	B		26	Bit 26 Descriptor	B	
11	Bit 11 Descriptor	B		27	Bit 27 Descriptor	B	
12	Bit 12 Descriptor	B		28	Bit 28 Descriptor	B	
13	Bit 13 Descriptor	B		29	Bit 29 Descriptor	B	
14	Bit 14 Descriptor	B		30	Bit 30 Descriptor	B	
15	Bit 15 Descriptor	B		31	Bit 31 Descriptor	B	
16	Bit 16 Descriptor	B		32	Bit 32 Descriptor	B	
<b>LOCATION 112 – WIEGAND FORMAT 6 (BIT DESCRIPTOR 33 - 64)</b>							
<b>SEG</b>	<b>DESCRIPTION</b>	<b>DEFAULT</b>	<b>DATA</b>	<b>SEG</b>	<b>DESCRIPTION</b>	<b>DEFAULT</b>	<b>DATA</b>
1	Bit 33 Descriptor	B		17	Bit 49 Descriptor	E	
2	Bit 34 Descriptor	B		18	Bit 50 Descriptor	E	
3	Bit 35 Descriptor	B		19	Bit 51 Descriptor	E	
4	Bit 36 Descriptor	B		20	Bit 52 Descriptor	E	
5	Bit 37 Descriptor	B		21	Bit 53 Descriptor	E	
6	Bit 38 Descriptor	B		22	Bit 54 Descriptor	E	
7	Bit 39 Descriptor	B		23	Bit 55 Descriptor	E	
8	Bit 40 Descriptor	D		24	Bit 56 Descriptor	E	
9	Bit 41 Descriptor	E		25	Bit 57 Descriptor	E	
10	Bit 42 Descriptor	E		26	Bit 58 Descriptor	E	
11	Bit 43 Descriptor	E		27	Bit 59 Descriptor	E	
12	Bit 44 Descriptor	E		28	Bit 60 Descriptor	E	
13	Bit 45 Descriptor	E		29	Bit 61 Descriptor	E	
14	Bit 46 Descriptor	E		30	Bit 62 Descriptor	E	
15	Bit 47 Descriptor	E		31	Bit 63 Descriptor	E	
16	Bit 48 Descriptor	E		32	Bit 64 Descriptor	E	
<b>LOCATION 113 – WIEGAND FORMAT 6 (PARITY TYPE 1)</b>							
1	Parity Type 1	1	0=No Parity; 1=Odd Parity; 2=Even Parity				
<b>LOCATION 114 – WIEGAND FORMAT 6 (PARITY MASK 1)</b>							
1	Parity Mask 1	12345678		5	Parity Mask 5	12345678	
2	Parity Mask 2	12345678		6	Parity Mask 6	-----	
3	Parity Mask 3	12345678		7	Parity Mask 7	-----	
4	Parity Mask 4	12345678		8	Parity Mask 8	-----	
<b>LOCATION 115 – WIEGAND FORMAT 6 (PARITY TYPE 2)</b>							
1	Parity Type 2	2	0=No Parity; 1=Odd Parity; 2=Even Parity				
<b>LOCATION 116 – WIEGAND FORMAT 6 (PARITY MASK 2)</b>							
1	Parity Mask 1	12345678		5	Parity Mask 5	-----	
2	Parity Mask 2	12345678		6	Parity Mask 6	-----	
3	Parity Mask 3	----5678		7	Parity Mask 7	-----	
4	Parity Mask 4	-----		8	Parity Mask 8	-----	
<b>LOCATION 117 – WIEGAND FORMAT 6 (PARITY TYPE 3)</b>							
1	Parity Type 3	0	0=No Parity; 1=Odd Parity; 2=Even Parity				
<b>LOCATION 118 – WIEGAND FORMAT 6 (PARITY MASK 3)</b>							
1	Parity Mask 1	-----		5	Parity Mask 5	-----	
2	Parity Mask 2	-----		6	Parity Mask 6	-----	
3	Parity Mask 3	-----		7	Parity Mask 7	-----	
4	Parity Mask 4	-----		8	Parity Mask 8	-----	
<b>LOCATION 119 – WIEGAND FORMAT 6 (PARITY TYPE 4)</b>							
1	Parity Type 4	0					
<b>LOCATION 120 – WIEGAND FORMAT 6 (PARITY MASK 4)</b>							
1	Parity Mask 1	-----		5	Parity Mask 5	-----	
2	Parity Mask 2	-----		6	Parity Mask 6	-----	
3	Parity Mask 3	-----		7	Parity Mask 7	-----	
4	Parity Mask 4	-----		8	Parity Mask 8	-----	
<b>LOCATION 121 – WIEGAND FORMAT 6 (PARITY TYPE 5)</b>							
1	Parity Type 5	0					

LOCATION 122 – WIEGAND FORMAT 6 (PARITY MASK 5)						
1	Parity Mask 1	-----		5	Parity Mask 5	-----
2	Parity Mask 2	-----		6	Parity Mask 6	-----
3	Parity Mask 3	-----		7	Parity Mask 7	-----
4	Parity Mask 4	-----		8	Parity Mask 8	-----
WIEGAND FORMAT 7						
LOCATION 123 – WIEGAND FORMAT 7 (DIGITS & BITS) (DECIMAL DATA)						
	DESCRIPTION	DEFAULT		DATA		
1	Number of Digits in Facility Code	0				
2	Number of Digits in Badge Number	0				
3	Number of Bits in Facility Code	0				
4	Number of Bits in Badge Number	0				
5	Total Number of Bits in Complete Weigand Format (including parity bits)	0				
LOCATION 124 – WIEGAND FORMAT 7 (BIT DESCRIPTOR 1 - 32) HEX DATA						
0 = Always Zero; 1 = Always One; B = Badge Number Bit; D = Parity Bit; E = End of Format; F = Facility Code Bit						
SEG	DESCRIPTION	DEFAULT	DATA	SEG	DESCRIPTION	DEFAULT
1	Bit 1 Descriptor	E		17	Bit 17 Descriptor	E
2	Bit 2 Descriptor	E		18	Bit 18 Descriptor	E
3	Bit 3 Descriptor	E		19	Bit 19 Descriptor	E
4	Bit 4 Descriptor	E		20	Bit 20 Descriptor	E
5	Bit 5 Descriptor	E		21	Bit 21 Descriptor	E
6	Bit 6 Descriptor	E		22	Bit 22 Descriptor	E
7	Bit 7 Descriptor	E		23	Bit 23 Descriptor	E
8	Bit 8 Descriptor	E		24	Bit 24 Descriptor	E
9	Bit 9 Descriptor	E		25	Bit 25 Descriptor	E
10	Bit 10 Descriptor	E		26	Bit 26 Descriptor	E
11	Bit 11 Descriptor	E		27	Bit 27 Descriptor	E
12	Bit 12 Descriptor	E		28	Bit 28 Descriptor	E
13	Bit 13 Descriptor	E		29	Bit 29 Descriptor	E
14	Bit 14 Descriptor	E		30	Bit 30 Descriptor	E
15	Bit 15 Descriptor	E		31	Bit 31 Descriptor	E
16	Bit 16 Descriptor	E		32	Bit 32 Descriptor	E
LOCATION 125 – WIEGAND FORMAT 7 (BIT DESCRIPTOR 33 - 64)						
1	Bit 33 Descriptor	E		17	Bit 49 Descriptor	E
2	Bit 34 Descriptor	E		18	Bit 50 Descriptor	E
3	Bit 35 Descriptor	E		19	Bit 51 Descriptor	E
4	Bit 36 Descriptor	E		20	Bit 52 Descriptor	E
5	Bit 37 Descriptor	E		21	Bit 53 Descriptor	E
6	Bit 38 Descriptor	E		22	Bit 54 Descriptor	E
7	Bit 39 Descriptor	E		23	Bit 55 Descriptor	E
8	Bit 40 Descriptor	E		24	Bit 56 Descriptor	E
9	Bit 41 Descriptor	E		25	Bit 57 Descriptor	E
10	Bit 42 Descriptor	E		26	Bit 58 Descriptor	E
11	Bit 43 Descriptor	E		27	Bit 59 Descriptor	E
12	Bit 44 Descriptor	E		28	Bit 60 Descriptor	E
13	Bit 45 Descriptor	E		29	Bit 61 Descriptor	E
14	Bit 46 Descriptor	E		30	Bit 62 Descriptor	E
15	Bit 47 Descriptor	E		31	Bit 63 Descriptor	E
16	Bit 48 Descriptor	E		32	Bit 64 Descriptor	E
LOCATION 126 – WIEGAND FORMAT 7 (PARITY TYPE 1)						
			0=No Parity; 1=Odd Parity; 2=Even Parity			
1	Parity Type 1	0				
LOCATION 127 – WIEGAND FORMAT 7 (PARITY MASK 1)						
1	Parity Mask 1	-----		5	Parity Mask 5	-----
2	Parity Mask 2	-----		6	Parity Mask 6	-----
3	Parity Mask 3	-----		7	Parity Mask 7	-----
4	Parity Mask 4	-----		8	Parity Mask 8	-----
LOCATION 128 – WIEGAND FORMAT 7 (PARITY TYPE 2)						
			0=No Parity; 1=Odd Parity; 2=Even Parity			
1	Parity Type 2	0				
LOCATION 129 – WIEGAND FORMAT 7 (PARITY MASK 2)						
1	Parity Mask 1	-----		5	Parity Mask 5	-----
2	Parity Mask 2	-----		6	Parity Mask 6	-----
3	Parity Mask 3	-----		7	Parity Mask 7	-----
4	Parity Mask 4	-----		8	Parity Mask 8	-----
LOCATION 130 – WIEGAND FORMAT 7 (PARITY TYPE 3)						
			0=No Parity; 1=Odd Parity; 2=Even Parity			
1	Parity Type 3	0				
LOCATION 131 – WIEGAND FORMAT 7 (PARITY MASK 3)						
1	Parity Mask 1	-----		5	Parity Mask 5	-----
2	Parity Mask 2	-----		6	Parity Mask 6	-----
3	Parity Mask 3	-----		7	Parity Mask 7	-----
4	Parity Mask 4	-----		8	Parity Mask 8	-----
LOCATION 132 – WIEGAND FORMAT 7 (PARITY TYPE 4)						
1	Parity Type 4	0				
LOCATION 133 – WIEGAND FORMAT 7 (PARITY MASK 4)						
1	Parity Mask 1	-----		5	Parity Mask 5	-----
2	Parity Mask 2	-----		6	Parity Mask 6	-----
3	Parity Mask 3	-----		7	Parity Mask 7	-----
4	Parity Mask 4	-----		8	Parity Mask 8	-----
LOCATION 134 – WIEGAND FORMAT 7 (PARITY TYPE 5)						
1	Parity Type 5	0				
LOCATION 135 – WIEGAND FORMAT 7 (PARITY MASK 5)						
1	Parity Mask 1	-----		5	Parity Mask 5	-----
2	Parity Mask 2	-----		6	Parity Mask 6	-----
3	Parity Mask 3	-----		7	Parity Mask 7	-----
4	Parity Mask 4	-----		8	Parity Mask 8	-----



**WIEGAND FORMAT 8****LOCATION 136 – WIEGAND FORMAT 8 (DIGITS & BITS) (DECIMAL DATA)**

	DESCRIPTION	DEFAULT	DATA
1	Number of Digits in Facility Code	0	
2	Number of Digits in Badge Number	0	
3	Number of Bits in Facility Code	0	
4	Number of Bits in Badge Number	0	
5	Total Number of Bits in Complete Wiegand Format (including parity bits)	0	

**LOCATION 137 – WIEGAND FORMAT 8 (BIT DESCRIPTOR 1 - 32) HEX DATA**

0 = Always Zero; 1 = Always One; B = Badge Number Bit; D = Parity Bit; E = End of Format; F = Facility Code Bit

SEG	DESCRIPTION	DEFAULT	DATA	SEG	DESCRIPTION	DEFAULT	DATA
1	Bit 1 Descriptor	E		17	Bit 17 Descriptor	E	
2	Bit 2 Descriptor	E		18	Bit 18 Descriptor	E	
3	Bit 3 Descriptor	E		19	Bit 19 Descriptor	E	
4	Bit 4 Descriptor	E		20	Bit 20 Descriptor	E	
5	Bit 5 Descriptor	E		21	Bit 21 Descriptor	E	
6	Bit 6 Descriptor	E		22	Bit 22 Descriptor	E	
7	Bit 7 Descriptor	E		23	Bit 23 Descriptor	E	
8	Bit 8 Descriptor	E		24	Bit 24 Descriptor	E	
9	Bit 9 Descriptor	E		25	Bit 25 Descriptor	E	
10	Bit 10 Descriptor	E		26	Bit 26 Descriptor	E	
11	Bit 11 Descriptor	E		27	Bit 27 Descriptor	E	
12	Bit 12 Descriptor	E		28	Bit 28 Descriptor	E	
13	Bit 13 Descriptor	E		29	Bit 29 Descriptor	E	
14	Bit 14 Descriptor	E		30	Bit 30 Descriptor	E	
15	Bit 15 Descriptor	E		31	Bit 31 Descriptor	E	
16	Bit 16 Descriptor	E		32	Bit 32 Descriptor	E	

**LOCATION 138 – WIEGAND FORMAT 8 (BIT DESCRIPTOR 33 - 64)**

1	Bit 33 Descriptor	E		17	Bit 49 Descriptor	E	
2	Bit 34 Descriptor	E		18	Bit 50 Descriptor	E	
3	Bit 35 Descriptor	E		19	Bit 51 Descriptor	E	
4	Bit 36 Descriptor	E		20	Bit 52 Descriptor	E	
5	Bit 37 Descriptor	E		21	Bit 53 Descriptor	E	
6	Bit 38 Descriptor	E		22	Bit 54 Descriptor	E	
7	Bit 39 Descriptor	E		23	Bit 55 Descriptor	E	
8	Bit 40 Descriptor	E		24	Bit 56 Descriptor	E	
9	Bit 41 Descriptor	E		25	Bit 57 Descriptor	E	
10	Bit 42 Descriptor	E		26	Bit 58 Descriptor	E	
11	Bit 43 Descriptor	E		27	Bit 59 Descriptor	E	
12	Bit 44 Descriptor	E		28	Bit 60 Descriptor	E	
13	Bit 45 Descriptor	E		29	Bit 61 Descriptor	E	
14	Bit 46 Descriptor	E		30	Bit 62 Descriptor	E	
15	Bit 47 Descriptor	E		31	Bit 63 Descriptor	E	
16	Bit 48 Descriptor	E		32	Bit 64 Descriptor	E	

**LOCATION 139 – WIEGAND FORMAT 8 (PARITY TYPE 1) | 0=No Parity; 1=Odd Parity; 2=Even Parity**

1	Parity Type 1	0	
---	---------------	---	--

**LOCATION 140 – WIEGAND FORMAT 8 (PARITY MASK 1)**

1	Parity Mask 1	-----		5	Parity Mask 5	-----	
2	Parity Mask 2	-----		6	Parity Mask 6	-----	
3	Parity Mask 3	-----		7	Parity Mask 7	-----	
4	Parity Mask 4	-----		8	Parity Mask 8	-----	

**LOCATION 141 – WIEGAND FORMAT 8 (PARITY TYPE 2) | 0=No Parity; 1=Odd Parity; 2=Even Parity**

1	Parity Type 2	0	
---	---------------	---	--

**LOCATION 142 – WIEGAND FORMAT 8 (PARITY MASK 2)**

SEG	DESCRIPTION	DEFAULT	DATA	SEG	DESCRIPTION	DEFAULT	DATA
1	Parity Mask 1	-----		5	Parity Mask 5	-----	
2	Parity Mask 2	-----		6	Parity Mask 6	-----	
3	Parity Mask 3	-----		7	Parity Mask 7	-----	
4	Parity Mask 4	-----		8	Parity Mask 8	-----	

**LOCATION 143 – WIEGAND FORMAT 8 (PARITY TYPE 3) | 0=No Parity; 1=Odd Parity; 2=Even Parity**

1	Parity Type 3	0	
---	---------------	---	--

**LOCATION 144 – WIEGAND FORMAT 8 (PARITY MASK 3)**

1	Parity Mask 1	-----		5	Parity Mask 5	-----	
2	Parity Mask 2	-----		6	Parity Mask 6	-----	
3	Parity Mask 3	-----		7	Parity Mask 7	-----	
4	Parity Mask 4	-----		8	Parity Mask 8	-----	

**LOCATION 145 – WIEGAND FORMAT 8 (PARITY TYPE 4)**

1	Parity Type 4	0	
---	---------------	---	--

**LOCATION 146 – WIEGAND FORMAT 8 (PARITY MASK 4)**

1	Parity Mask 1	-----		5	Parity Mask 5	-----	
2	Parity Mask 2	-----		6	Parity Mask 6	-----	
3	Parity Mask 3	-----		7	Parity Mask 7	-----	
4	Parity Mask 4	-----		8	Parity Mask 8	-----	

**LOCATION 147 – WIEGAND FORMAT 8 (PARITY TYPE 5)**

1	Parity Type 5	0	
---	---------------	---	--

**LOCATION 148 – WIEGAND FORMAT 8 (PARITY MASK 5)**

1	Parity Mask 1	-----		5	Parity Mask 5	-----	
2	Parity Mask 2	-----		6	Parity Mask 6	-----	
3	Parity Mask 3	-----		7	Parity Mask 7	-----	
4	Parity Mask 4	-----		8	Parity Mask 8	-----	

Main 800-727-2339 Technical Support 888-437-3287  
 Outside the US 903-845-6941 Sales & Literature 800-547-2556  
 Main Fax 903-845-6811 www.gesecurity.com



1420 N. MAIN STREET  
 GLADEWATER, TEXAS 75647