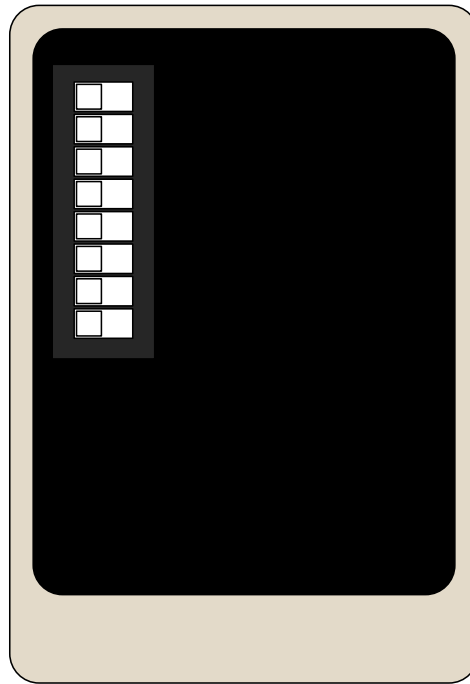**ASIS technologies**
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Configure AMR170 Dip Switch in Wiegand Comms

Overview

When using Wiegand communication, bit 1 to bit 4 is used to set the Wiegand output card format and bit 5 must be turned off. When used with C302 Controller, Wiegand format 56 bit is supported to output 7 byte UID.

DIP Switch Setting

The AMR170 series reader has 8 way DIP switch with function as shown in table 1.

Bit	Label	Function in RS485	Function in Wiegand
1	A0	Address bit 0	Card format setting
2	A1	Address bit 1	Card format setting
3	A2	Address bit 2	Card format setting
4	A3	Address bit 3	Card format setting
5	Mode RS485/ Wiegand	OFF – Wiegand, ON – RS485	
6	8/4 Byte	OFF – 8 byte, ON – 4 byte	
7	CSN/CAN	OFF – CSN, ON – CAN	
8	TST	OFF – Run, ON - Testing	

DIPSW	DIP1	DIP2	DIP3	DIP4	DIP5	DIP6	DIP7	DIP8
Bit Format	Wiegand setting				OFF Wiegand			
26bit	off	off	off	off	Wiegand =Off	off = 64bit RS485 on= 32bit RS485	off = CSN RS485 on = CAN RS485	off = Run on= test
32bit	on	off	off	off				
32bit(8bit)	off	on	off	off				
34bit	on	on	off	off				
37bit	off	off	on	off				
37(8digit)	on	off	on	off				
40bit	off	on	on	off				
40bit(8digit)	on	on	on	off				
56bit	off	off	off	on				
64bit	on	off	off	on				
80bit	off	on	off	on				
168bit(ASIS)	on	on	on	on				

Note: Bit 7 CAN refer to Card Application Number found on EZ-Link card

The Contactless Smartcard CSN is 32 bit can be up to 10 digits decimal when converted. This is the solution to truncate the CSN and provide a result that once converted, it only give maximum of 8 digit decimal. The 37 bit odd and even priority bit is a result of getting the first and second half of total bit length.