

SETTINGS

The communication speed is fixed at 115200 bit/s. The frame format is 8 bit data, no parity, one start bit and one stop bit.

COMMUNICATION PROTOCOLS

When the reader read a valid card, it will send the card code to the PC.

Commands can be sent to the reader at any time and the reader will send back the response (if available).

Card reading (From reader to PC):

On card reading the following code sequence will be sent out from the reader:

0x02, ID, 0x06, n1, n2, n3, n4, n5, cs, 0x03

Where $cs=n1+n2+n3+n4+n5$

Commands (From PC to reader):

Command	Hex	Description
~,ID,r	0x7e, ID, 0x72	Turn off Relay
~,ID,R	0x7e, ID, 0x52	Turn on Relay
~,ID,1	0x7e, ID, 0x31	Pulse Relay for 1 second
~,ID,2	0x7e, ID, 0x32	Pulse Relay for 2 seconds
~,ID,l	0x7e, ID, 0x6c	Turn off LED
~,ID,L	0x7e, ID, 0x4c	Turn on LED
~,ID,0	0x7e, ID, 0x30	Make a beep sound

Packet Response (From reader to PC):

Response	Description
0x02, ID, 0x02, 0x52, 0x52, 0x03	Reader reset
0x02, ID, 0x02, 0x50, 0x50, 0x03	Switch closed
0x02, ID, 0x02, 0x70, 0x70, 0x03	Switch opened

**Test software is available from
<http://www.avea.cc/spec/test232.zip>**