

Open interface to elero usb stick

38400 baud, 1Startbit, 1 Stopbit, 8Datenbits, no time spaces within the message

Easy Control

USB host ==> USB stick		
Header	0xAA	always 0xAA
Length	0x02	always length 2
Command	0x4A	Easy_Check
CS	0x0A	Checksum, all the sum of all bytes (Header to CS) must be 0x00

USB stick ==> USB host		
Header	0xAA	always 0xAA
Length	0x04	always length 4
Command	0x4B	Easy_Confirm (the answer on Easy_Check)
Channel H	Bits	The upper channel bits, for channel 9 to channel 15 (16 is never in use)
Channel L	Bits	The lower channel bits, for channel 1 to 8 (1 indicates the channel is learned)
CS		Checksum, all the sum of all bytes (Header to CS) must be 0x00

USB host ==> USB stick		
Header	0xAA	always 0xAA
Length	0x05	always length 5
Command	0x4C	Easy_Send
Channel H	Bits	The upper channel bits, for channel 9 to channel 15 (16 is never in use)
Channel L	Bits	The lower channel bits, for channel 1 to 8
Key_Data	Payload	This payload will be send to all channels with the bit set
CS		Checksum, all the sum of all bytes (Header to CS) must be 0x00

Payloads to send

Key_Data	0x20	Up
Key_Data	0x44	Intermediate position
Key_Data	0x24	Tilt/ventilation
Key_Data	0x40	Down
Key_Data	0x10	Stop

USB stick ==> USB host		
Header	0xAA	always 0xAA
Length	0x05	always length 5
Command	0x4D	Easy_Ack (the answer on Easy_Send or Easy_Info)
Channel H	Bits	The upper channel bits, for channel 9 to channel 15 (16 is never in use)
Channel L	Bits	The lower channel bits, for channel 1 to 8 (only one bit is set!)
Info_Data	Info	This byte informs about the state of the channel
CS		Checksum, all the sum of all bytes (Header to CS) must be 0x00

Info to receive

Info_Data	0x00	No information
Info_Data	0x01	Top position stop
Info_Data	0x02	Bottom position stop
Info_Data	0x03	Intermediate position stop
Info_Data	0x04	Tilt/ventilation position stop
Info_Data	0x05	Blocking
Info_Data	0x06	Overheated
Info_Data	0x07	Timeout
Info_Data	0x08	Start to move up
Info_Data	0x09	Start to move down
Info_Data	0x0A	Moving up
Info_Data	0x0B	Moving down
Info_Data	0x0D	Stopped in undefined position
Info_Data	0x0E	Top position stop wich is tilt position
Info_Data	0x0F	Bottom position stop wich is intermediate position
Info_Data	0x10	Switching device switched off
Info_Data	0x11	Switching device switched on

USB host ==> USB stick		
Header	0xAA	always 0xAA
Length	0x04	always length 4
Command	0x4E	Easy_Info
Channel H	Bits	The upper channel bits, for channel 9 to channel 15 (16 is never in use)
Channel L	Bits	The lower channel bits, for channel 1 to 8
CS		Checksum, all the sum of all bytes (Command to CS) must be 0x00

The process of getting an ack can be interrupted anytime by a new Easy-Send command. The stick will always try to process the last command received from the host. The command before might be discard if not already done. The stick has no buffer or queue for the commands. If you want a secure drive of each command, you have to wait for the ack of each command or for the timeout of 4 seconds.

Typical communication:

