SEFRAM 9816B of USB Interface

The command of Digital Output is list below:

RS232 command	Function	Remarks
A(ASC 41H)	Send encoded data	Return encoded 64 byte
C(ASC 43H)	℃℉ button	
E(ASC 45H)	REC button	
H(ASC 48H)	HOLD button	
K(ASC 4BH)	Ask for model No.	Return 4 bytes
M(ASC 4DH)	MAX/MIN button	
N(ASC 4EH)	Exit MAX/MIN mode	
R	Recall command	
m	MEM function	

Note:you have to send 7 byte to meter, for example, if you want to send A comand, the format will be 0x02 0x41 0x00 0x00 0x00 0x00 0x03

- **Command K:**
  Return 4 bytes. For example, when sends command "K" to meter, it will return "5","2","1", ASCII(13) .
- **Command M:**
  Equivalent to one pushing on the MAX/MIN button and no message is returned.
- **Command N:**
  Equivalent to one pushing and hold the MAX/MIN button for two seconds to exit MAX/MIN mode.
- **Command E:**
  Equivalent to one pushing on the REC button and no message is returned.

- Command A: **(return 64** Byte)

1ⁿᵈ BYTE:

The first byte is the start byte , it value is **02**.

2ⁿᵈ BYTE:

bat_status

3->3 cells

2->2 cells

1->1 cells

0->empty

3nd BYTE:

bit 0   1 -> display T1-T2

bit 1   1-> recall mode

bit 2   1->T1 xxxx   0-> xxx.x

bit3:   1->T2 xxxx   0-> xxx.x

bit4:   1->T3 xxxx   0-> xxx.x

bit5:   1->T4 xxxx   0-> xxx.x

bit6:   1->T1-T2 xxxx   0-> xxx.x

bit7:   1->C   0->F

4nd BYTE:

bit 0   1 -> alarm

bit 1   1-> reading exceed high alarm

bit 2   1-> reading below low alarm

bit3:   1->recording

bit4:   1->memory is full

bit5:   1->HOLD mode

bit6:   1->MAX/MIN mode

bit7:   1->blue tooth enabled

5nd BYTE:

bit 0   1 -> MAX

bit 1   1-> MIN

bit 2   1-> AVG

bit3:   1->MAX/MIN/AVG flash

bit4:   1->

bit5:   1->

bit6:   1->

bit7:   1

6nd BYTE:

0->K type

1->J type

2->E type

3->T type

7nd BYTE:

bit 0 -> 1->T1_OL

bit 1 -> 1->T2_OL

bit 2 -> 1->T3_OL

bit 3 -> 1->T4_OL

bit 4 -> 1->T1_unplug

bit 5 -> 1->T1_unplug

bit 6 -> 1->T1_unplug

bit 7 -> 1->T1_unplug

For example: *10nd and 11nd byte are 0x01 0x02 then T1 will be 0x0102 that is 258 in decimal , then divided by 10 , that is 25.8 degree*

10nd BYTE and 11nd BYTE: channel 1 value

12nd BYTE and 13nd BYTE: channel 2 value

14nd BYTE and 15nd BYTE: channel 3 value

16nd BYTE and 17nd BYTE: channel 4 value   ;

18nd BYTE and 19nd BYTE: T1-T2 value

39~61 (38~60)lcd segmemt

62 N/A

63th checksum **BYTE (*not include* start byte 02 , end byte 03)**

64th BYTE

The last byte is the end byte , it value is **03**, first and last byte are used to check frame error.