PROTOCOL SERIAL FOR CAP10 V1.5

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PROTOCOL: RS232, 9600, 8, 1, N

CONTINUOUS STRING WILL BE TRANSMITTED AS BELOW:

AAAA,BBBB,CCC,WW,ZZ,UU,DDDDDDDDDDDDDDDDDDDD,SSSSS,MM,NN

AAAA	Filtered output, Part per thousand
BBBB	Non-filtered output, Part per thousand
CCC	Electronics Temperature, deg C
WW	Filter weight w1
ZZ	Filter weight w2
UU	Filter bypass
DDDDDDDDDDDDDDDDDDDD	Diagnostic Code
SSSSS	Serial number of sensor
MM	Error code
NN	Checksum

Example for Calculation of Check sum

string = **'0000,0000,024,30,05,02,09230006809050006616,00300,00,1C',0xD,0xA**

Number of Data byte: 53 bytes

Example : **0000,0000,024,30,05,02,09230006809050006616,00300,00,**

CRC8 : 2 byte

Ending : 2 byte **EX :** 0xD,0xA

CRC8 : checksum of **53** byte data 0000,0000,024,30,05,02,09230006809050006616,00300,00,

CRC8 cal:

CRC8= data1+data2+.. +data51

CRC8=CRC8 mod 255

CRC8L =CRC8 & 0xF

If (CRC8L <10) CRC8L = CRC8L +'0' rang ['0'-'9']

Else CRC8L = CRC8L +65 rang ['A'-'F']

CRC8H=(CRC8 & 0xF0) /16

If (CRC8H <10) CRC8H= CRC8H +'0' rang ['0'-'9']

Else CRC8H = CRC8H +65 rang [‘A’-‘F’]

EX :

string = ‘0000,0000,024,30,05,02,09230006809050006616,00300,00,1C’,0xD,0xA

CRC8=’0’+’0’+..+’0’+’,’=0x30+0x30+…+0x30+0x2C=0x0A1C

CRC8H=’1’, CRC8L=’C’

EX:

string = ‘0567D2’,0xD,0xA

Data = ‘0567’

CRC8=’0’+’5’+’6’+’7’=0x30+0x35+0x36+0x37=0xD2

CRC8H=’D’, CRC8L=’2’

Support contacts

Manufacturer

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Revision #4
Created Tue, Dec 13, 2022 2:51 AM by Kiệt Anh Nguyễn
Updated Tue, Dec 13, 2022 3:01 AM by Kiệt Anh Nguyễn