

PROTOCOL SERIAL FOR CAP10 V1.5

PROTOCOL SERIAL FOR CAP10 V1.5

PROTOCOL: RS232, 9600, 8, 1, N

CONTINUOUS STRING WILL BE TRANSMITTED AS BELOW:

AAAA,BBBB,CCC,WW,ZZ,UU,DDDDDDDDDDDDDDDDDDDD,SSSS,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
SSSS	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:

$CRC8 = data1 + data2 + .. + data51$

$CRC8 = CRC8 \bmod 255$

$CRC8L = CRC8 \& 0xF$

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



Daviteq Technologies Inc

No.11 Street 2G, Nam Hung Vuong Res., An Lac Ward, Binh Tan Dist., Ho Chi Minh City, Vietnam.
Tel: +84-28-6268.2523/4 (ext.122)

Email: info@daviteq.com | www.daviteq.com

🕒 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](#)