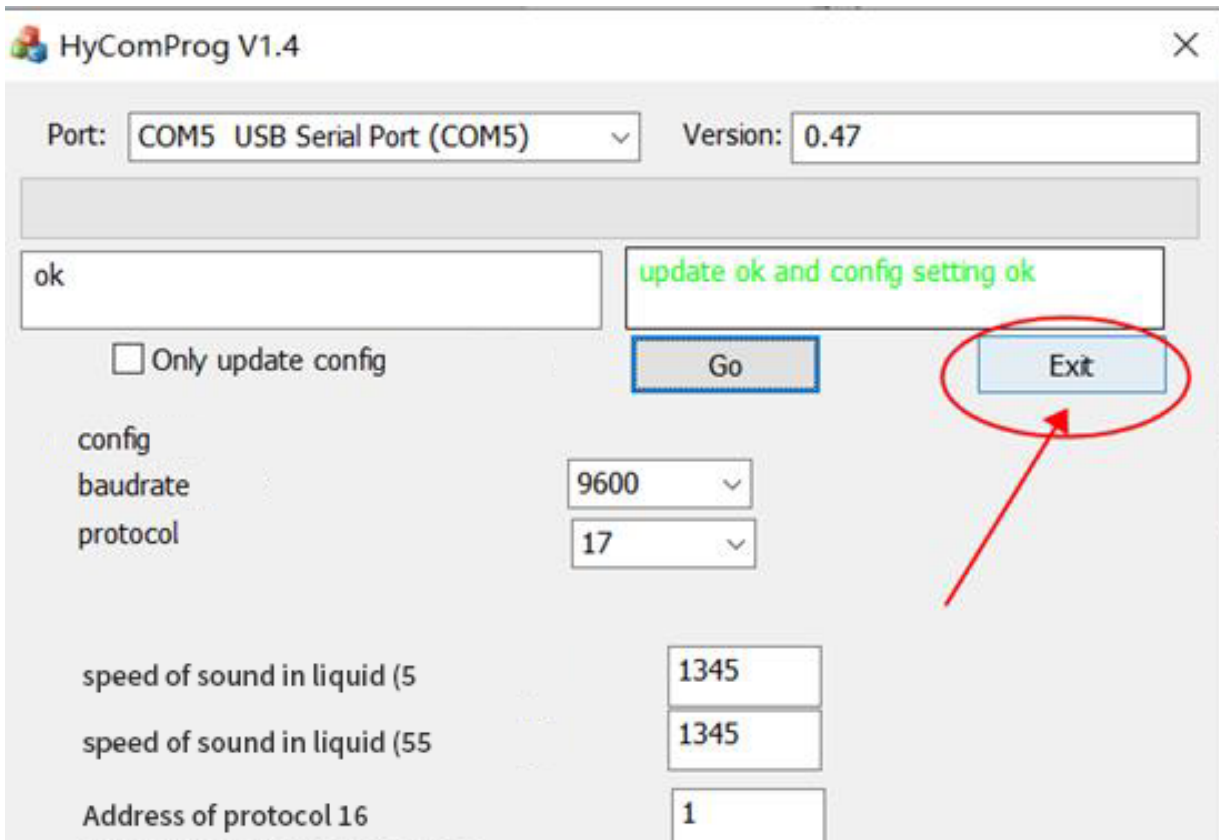
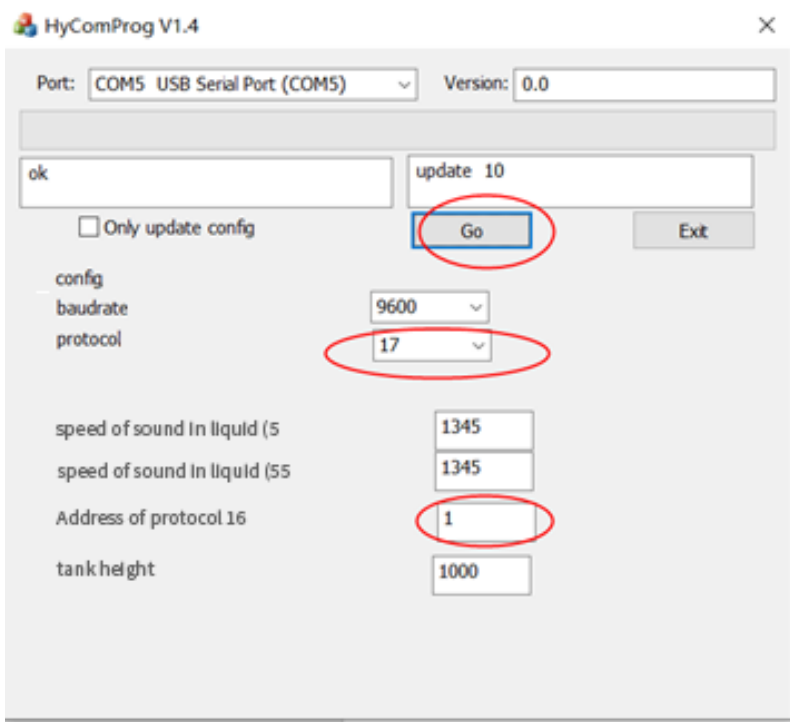






Modbus protocol 17 Testing in PC with UL212

1. Protocol must be 17 configured by APP or PC client. Baud Rate: 9600, net address: 1
Configure:

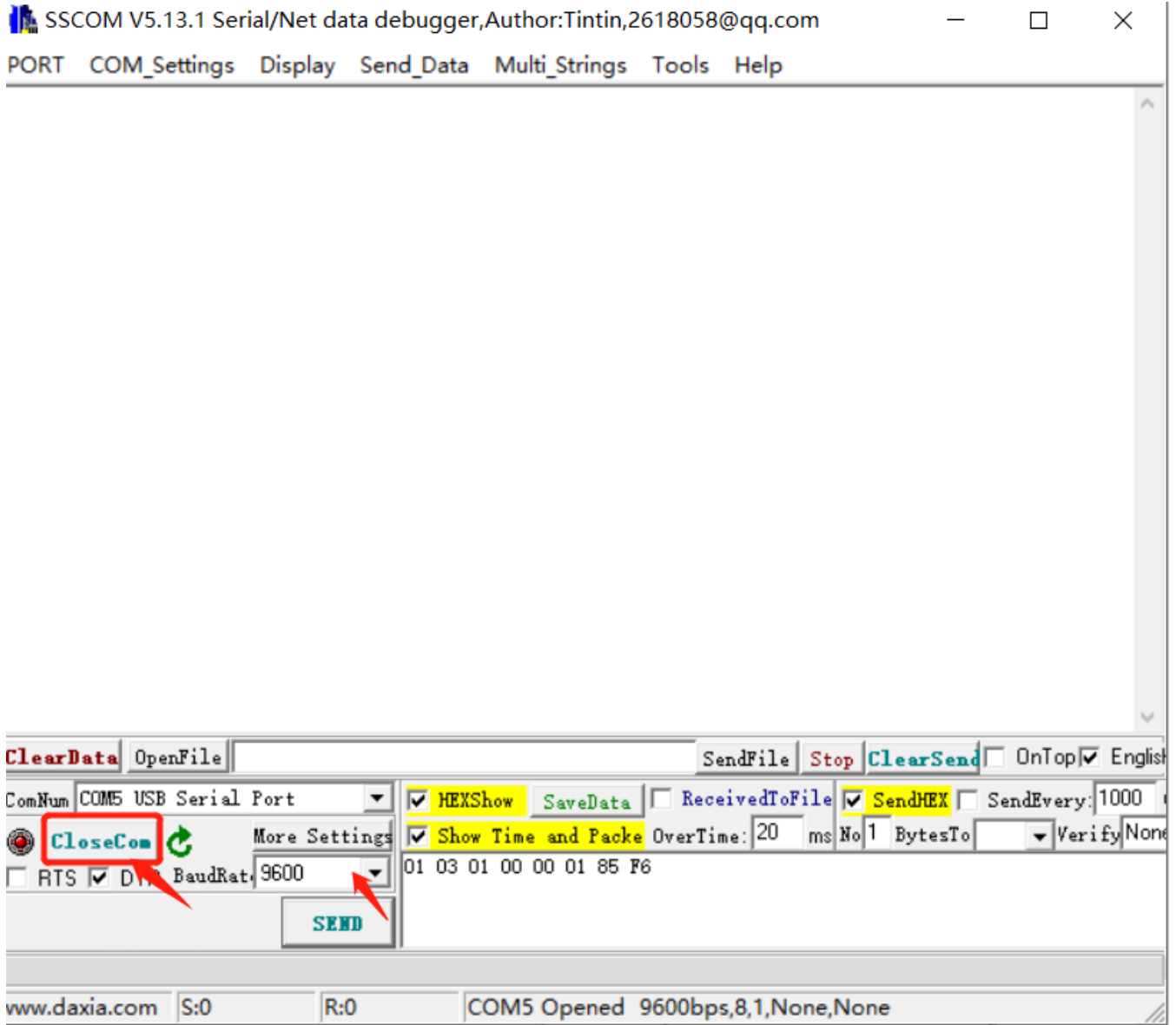


Firmware Version 91	 34.3°C
Real Time Height(mm)	128.6mm
Smooth Height(mm)	138.3mm
Signal Strength(better>30)	81
Valid Signal No(better>30)	15
Tilt Angle(degree, must<5)	2.0
Software Code(0:Normal)	0
Hardware Code(0:Normal)	0
Real Time Volume(Litre)	0.0
Real Time Volume(Percentage)	0.0%
Protocol Type	17
Baud Rate	9600
Net Address	1

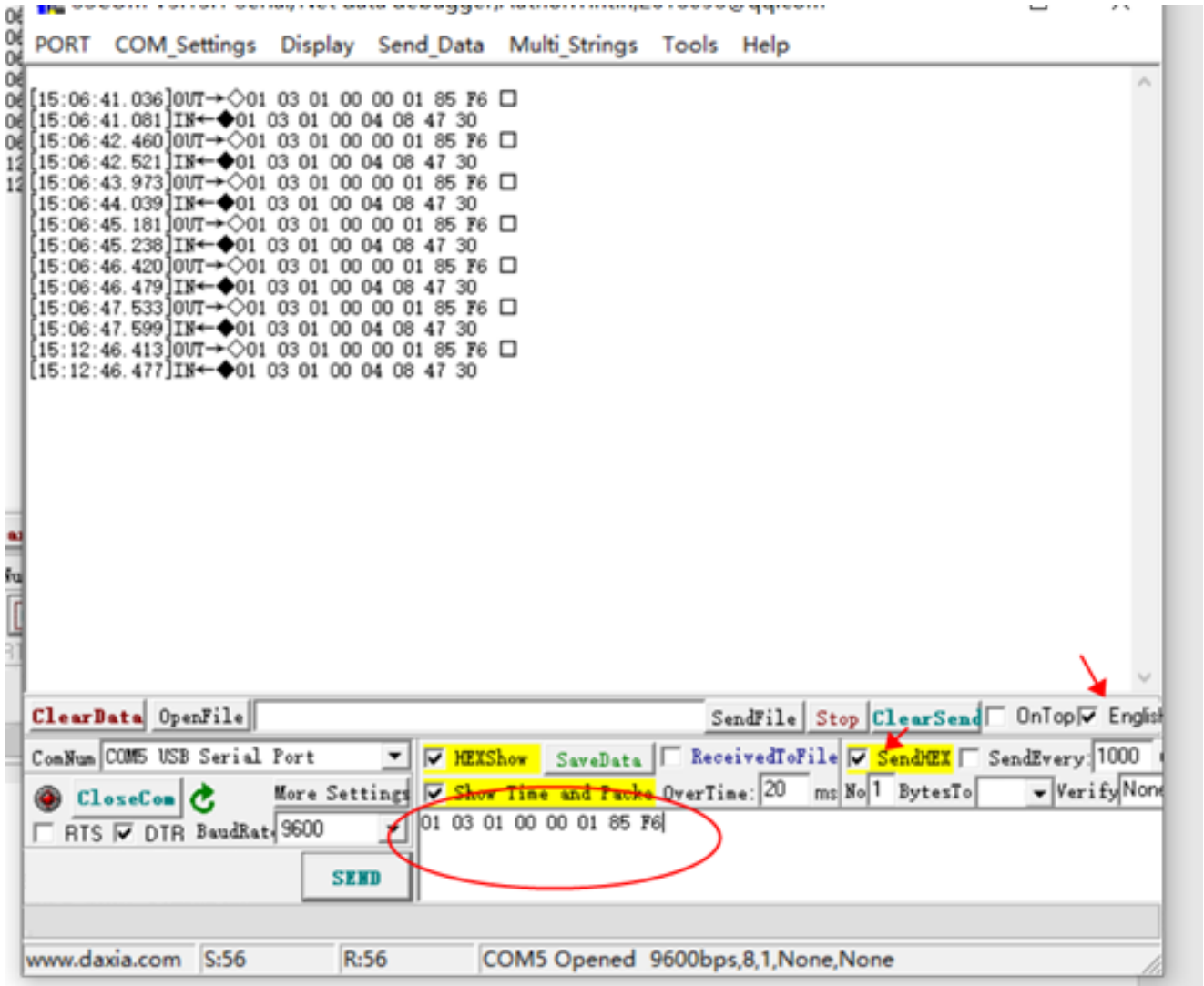
 Status  Setting  Tank Config

2.Read Raw original data via serial port

SSCOM download: <https://we.tl/t-i8xx5VhRFn>



(1) read fuel height



send command: 01 03 01 00 00 01 85 F6

01 03 fixed head, 03 indicates read

01 00 indicates fuel height

Read only	0X0100	Distance	Unit 0.1mm
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00 01 indicates net address (maximum FF FF, which means 65535)

85 F6 is check sum, 01 03 01 00 00 01 checksum is F685, high bit left, low bit right, which is 85F6 after covered

Hex Ascii

Data to be Verified :

Input data is in hexadecimal format, e.g.: 31 32 33 34

CRC Model Name : **CRC-16/MODBUS** x16+x15+x2+1

Width :

POLY (Hex) : e.g. : 3D65

INIT (Hex) : e.g. : FFFF

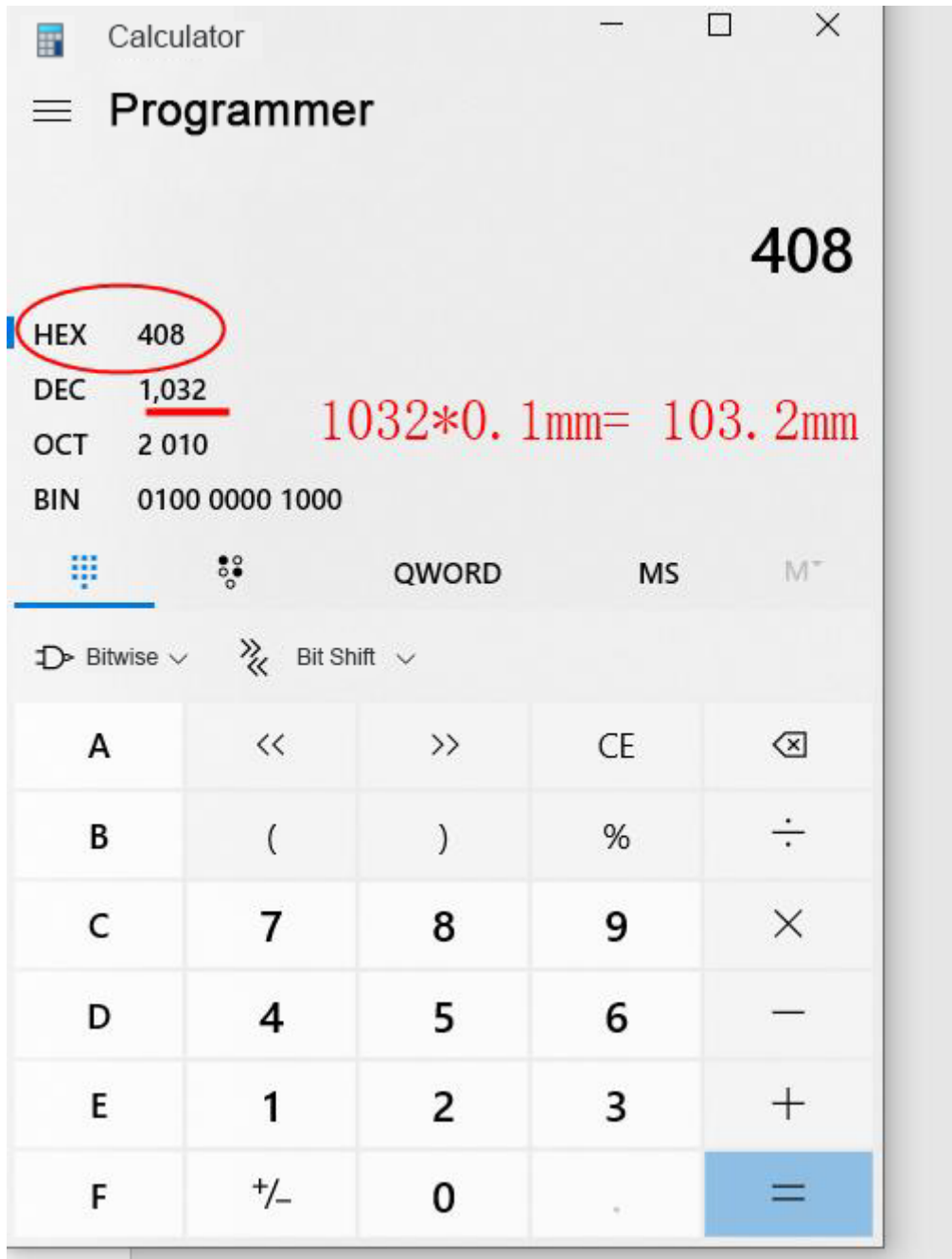
XOROUT (Hex) : e.g. : 0000

Input Reflection (REFIN) Output Reflection (REFOUT)

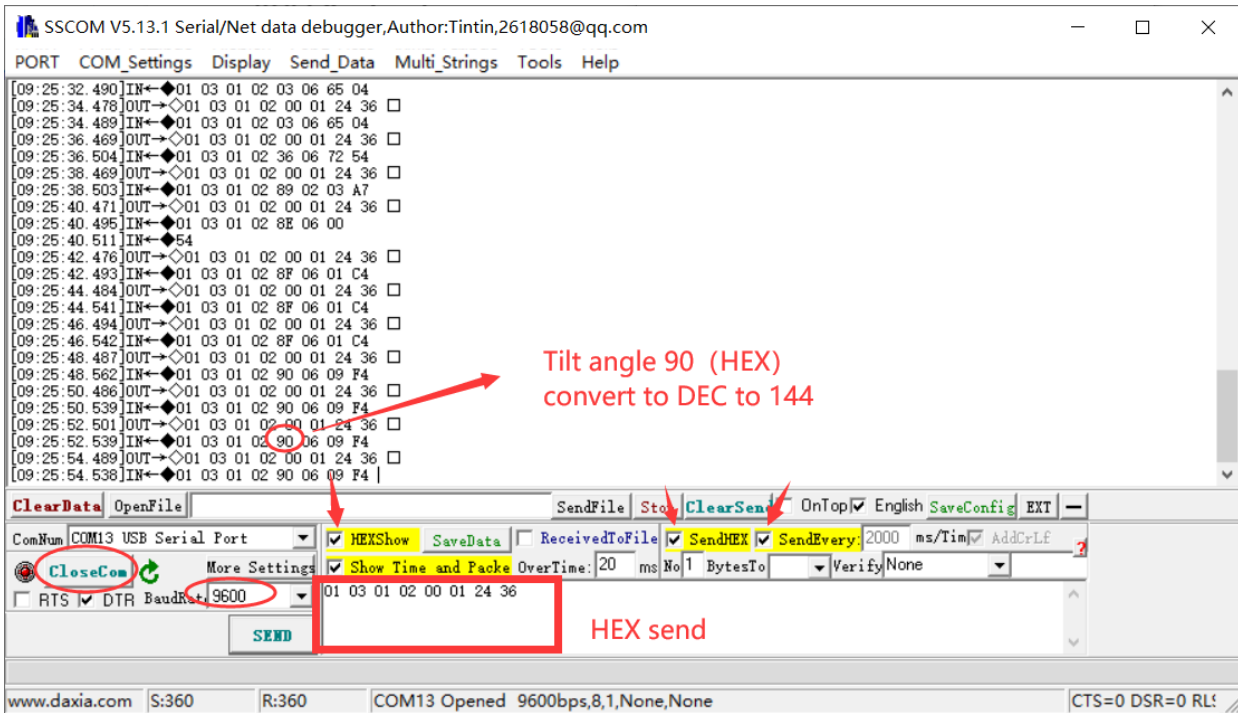
Checksum Result (Hex) :

Big-endian format (MSB left, LSB right). Please pay attention to byte order when using!

Sensor Reply: 01 03 01 00 04 08 47 30



(2) read tilt angle



Send Command: 01 03 01 02 00 01 24 36

- 01 03 fixed head
- 01 02 command to read tilt angle
- 00 01 indicates net address (maximum FF FF, which means 65535)
- 24 36 check sum

Data to be Verified: Hex ASCII

01 03 01 02 00 01

Input data is in hexadecimal format, e.g.: 31 32 33 34

CRC Model Name: CRC-16/MODBUS

Width: 16

POLY: 8005 (Hex) e.g. : 3D65

INIT: FFFF (Hex) e.g. : FFFF

XOROUT: 0000 (Hex) e.g. : 0000

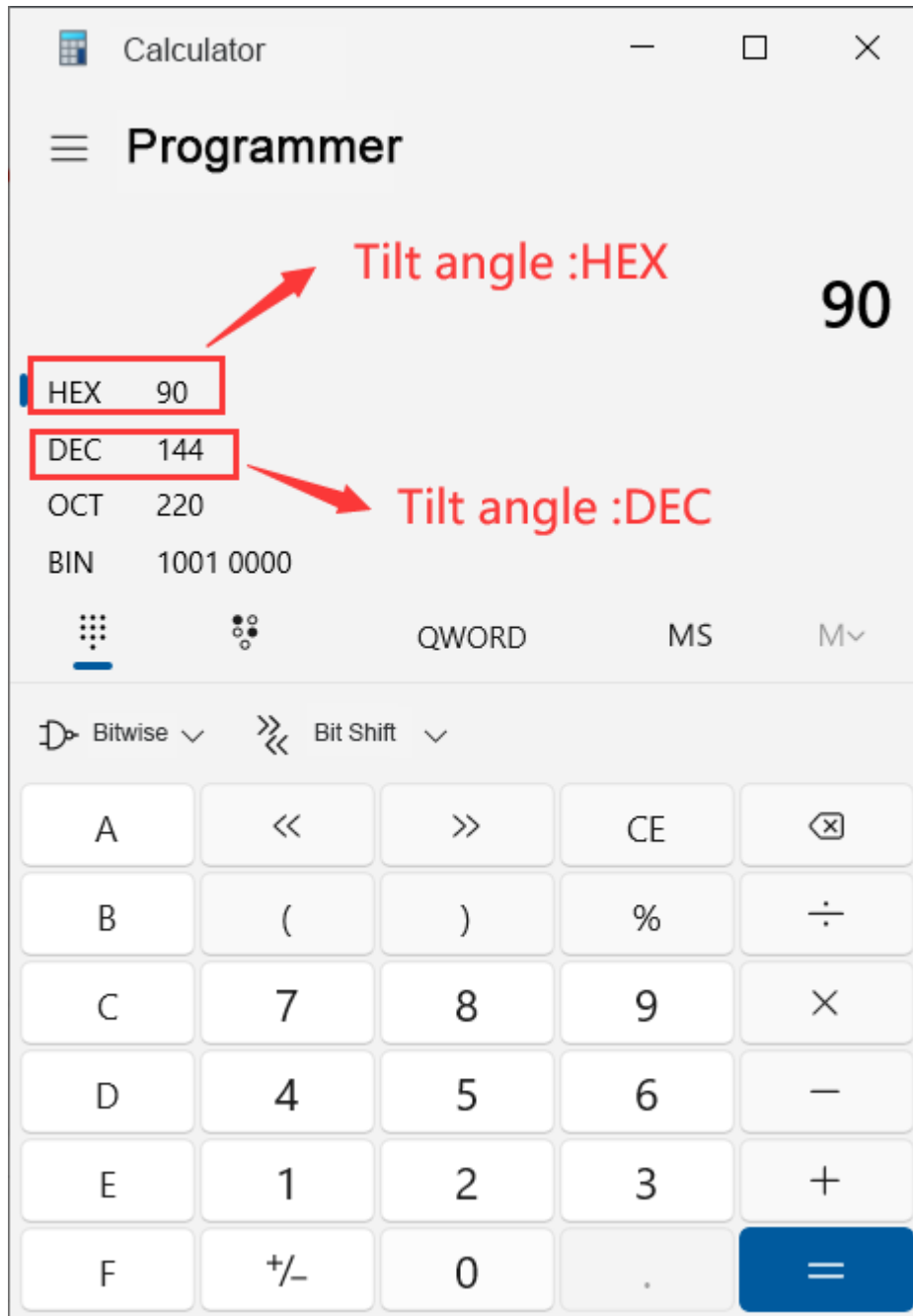
Input Reflection (REFIN) Output Reflection (REFOUT)





CRC Checksum

Checksum Result: 3624 (Hex)

Big-endian format (MSB left, LSB right). Please pay attention to byte order when using!

Sensor Reply: 01 03 01 02 90 06 09 F4



Firmware Version 91	 °C 33.3°C	
Real Time Height(mm)	574.3mm	
Smooth Height(mm)	138.3mm	
Signal Strength(better>30)	0	
Valid Signal No(better>30)	0	
Tilt Angle(degree, must<5)	144.0	
Software Code(0:Normal)	H	
Hardware Code(0:Normal)	2	
Real Time Volume(Litre)	0.0	
Real Time Volume(Percentage)	0.0%	
Protocol Type	17	
Baud Rate	9600	
Net Address	1	
 Status	 Setting	 Tank Config