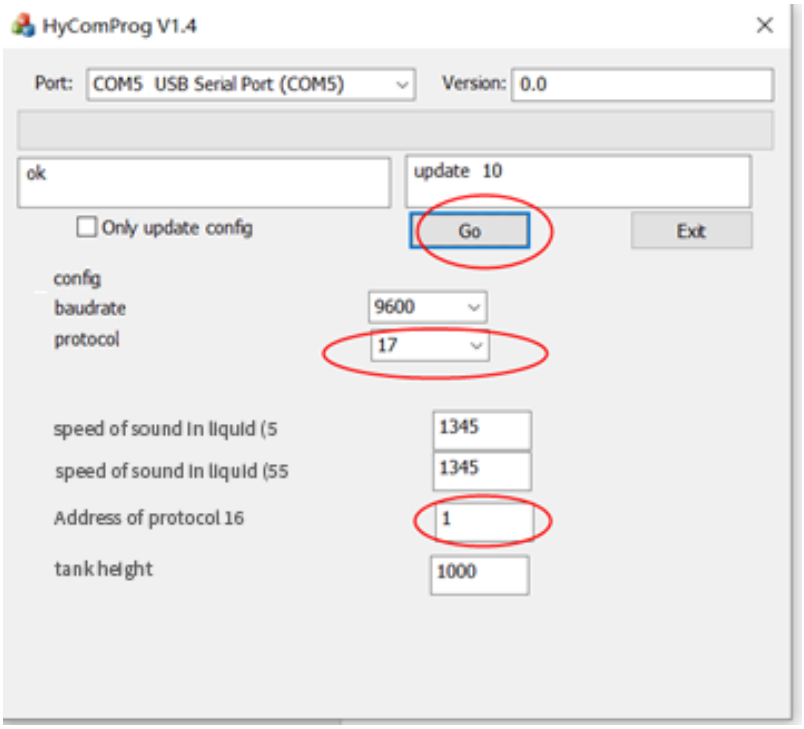
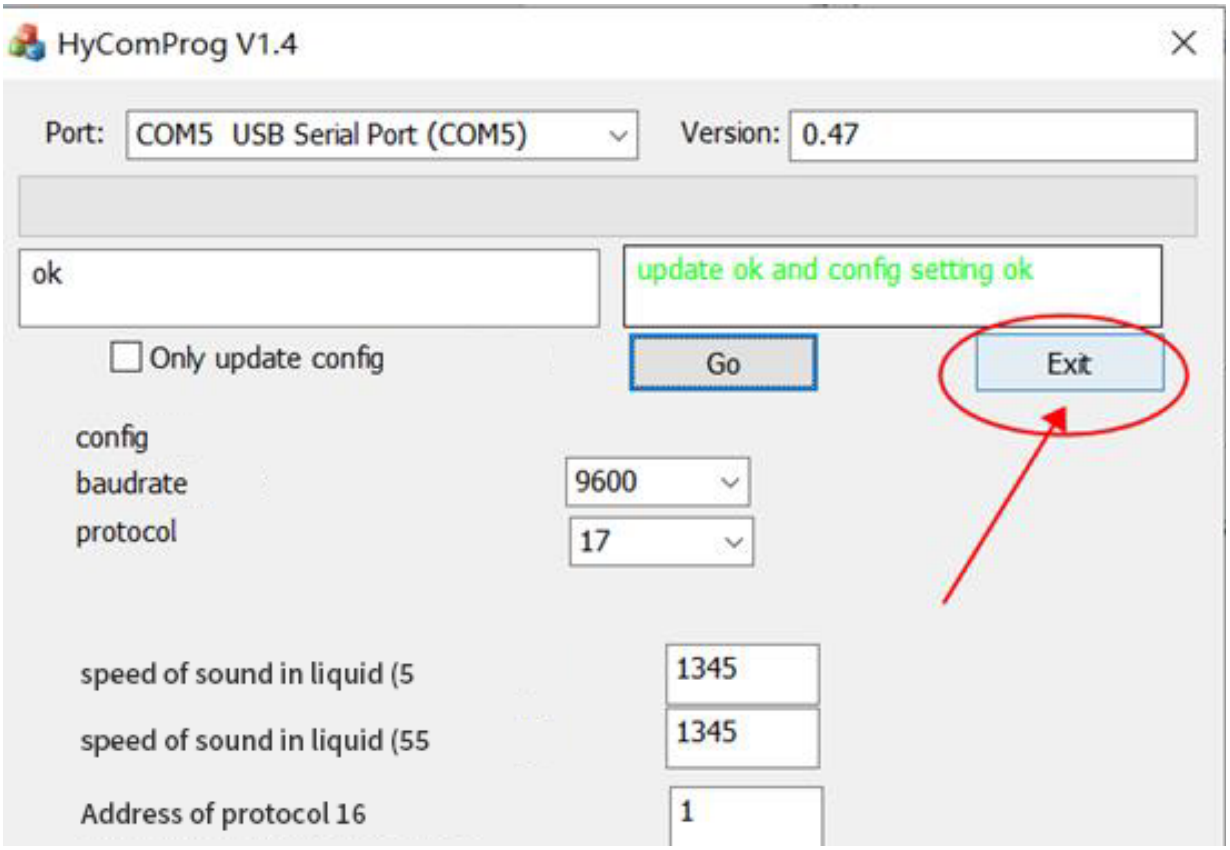
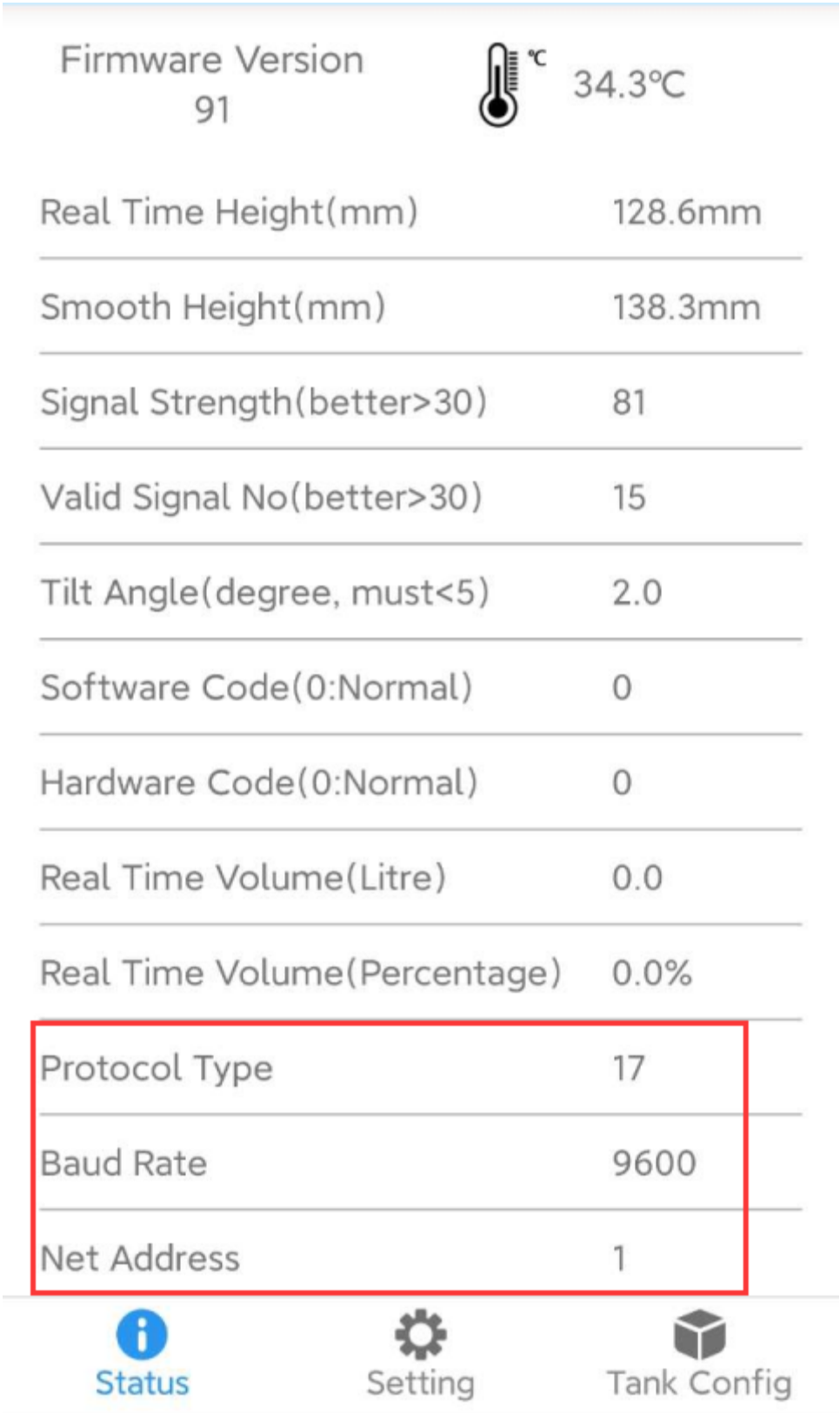
Modbus protocol 17 Testing in PC with UL212

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

Configure：

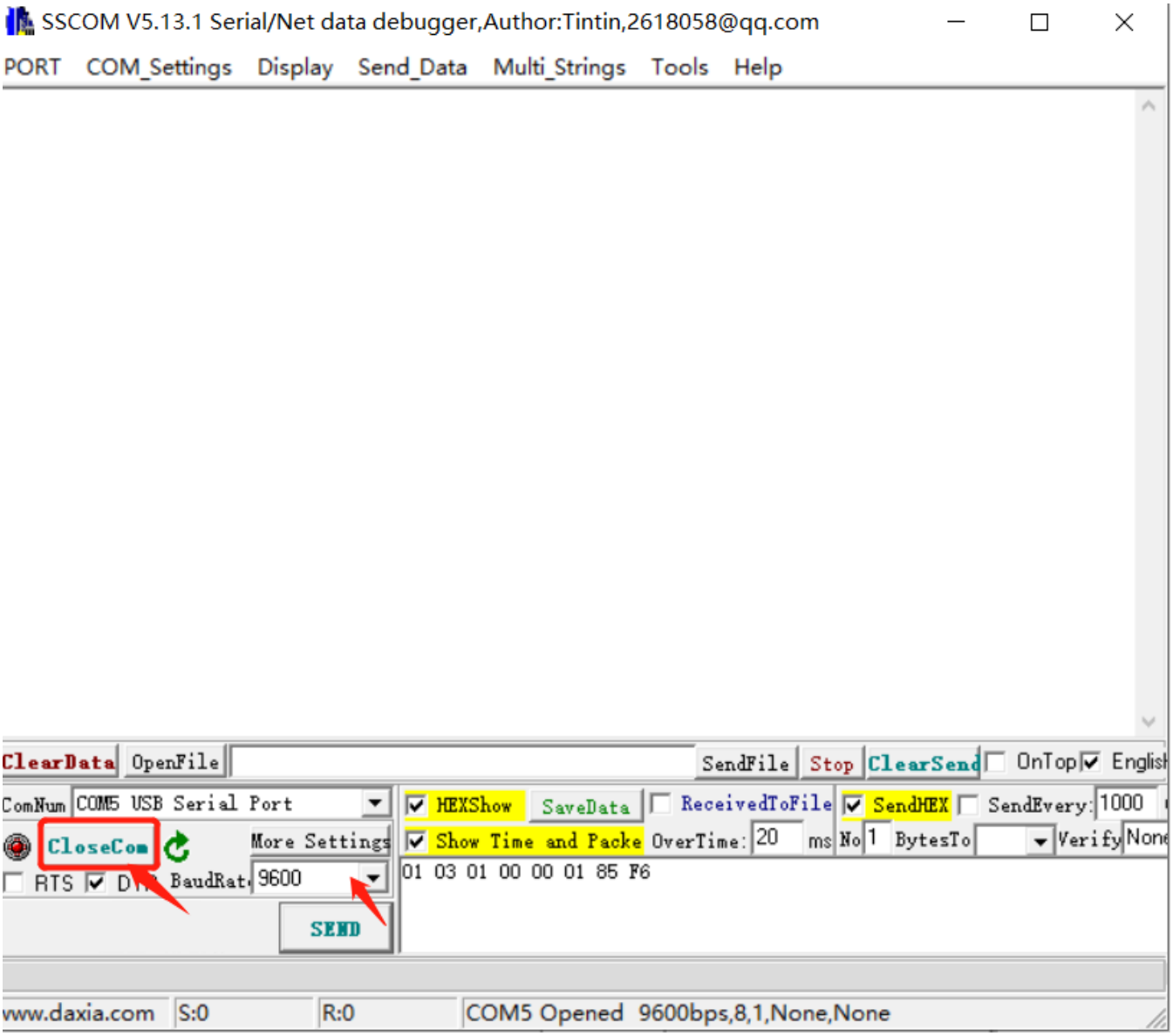




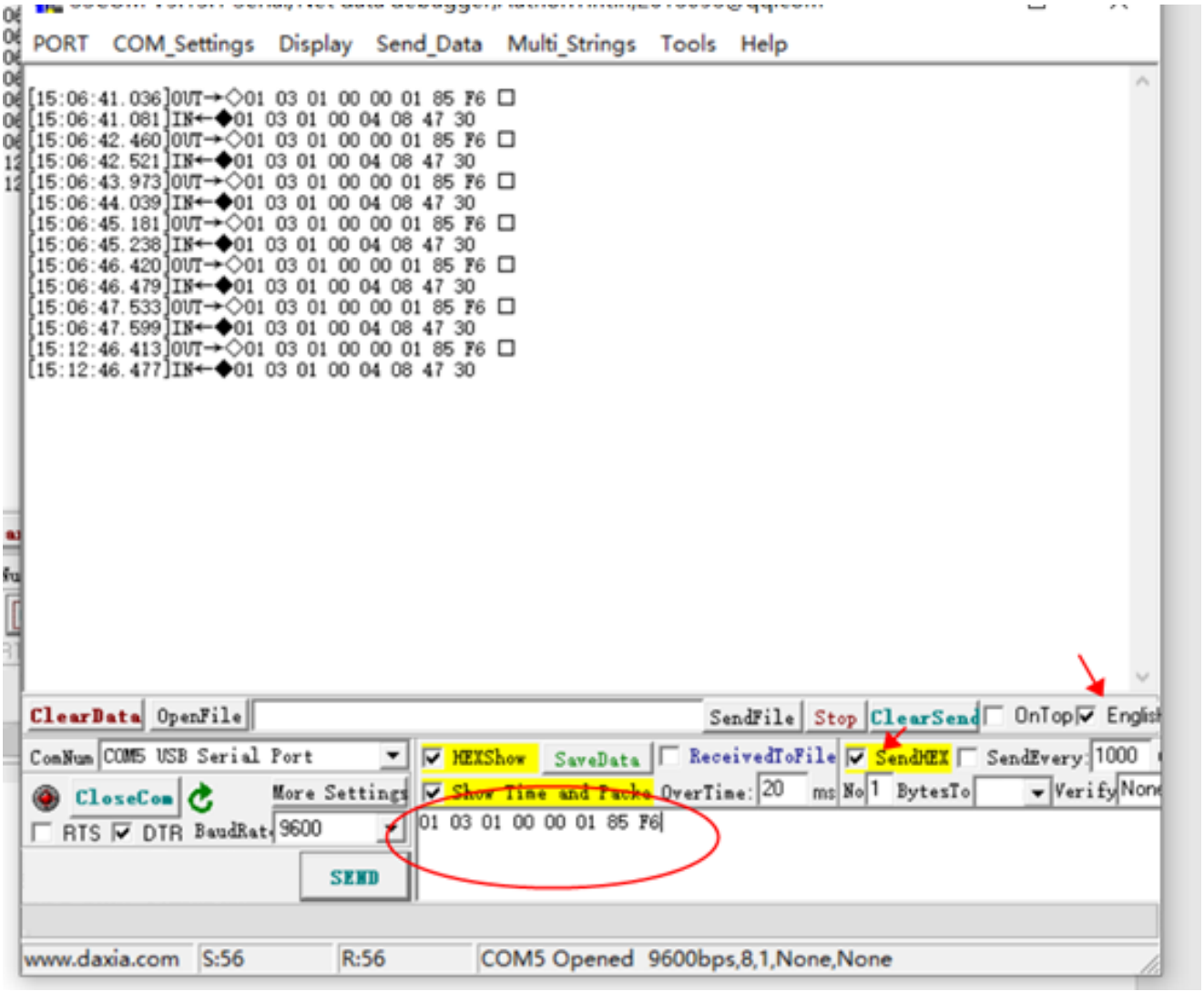


2.Read Raw original data via serial port

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



(1) read fuel height



send command：01 03 01 00 00 01 85 F6

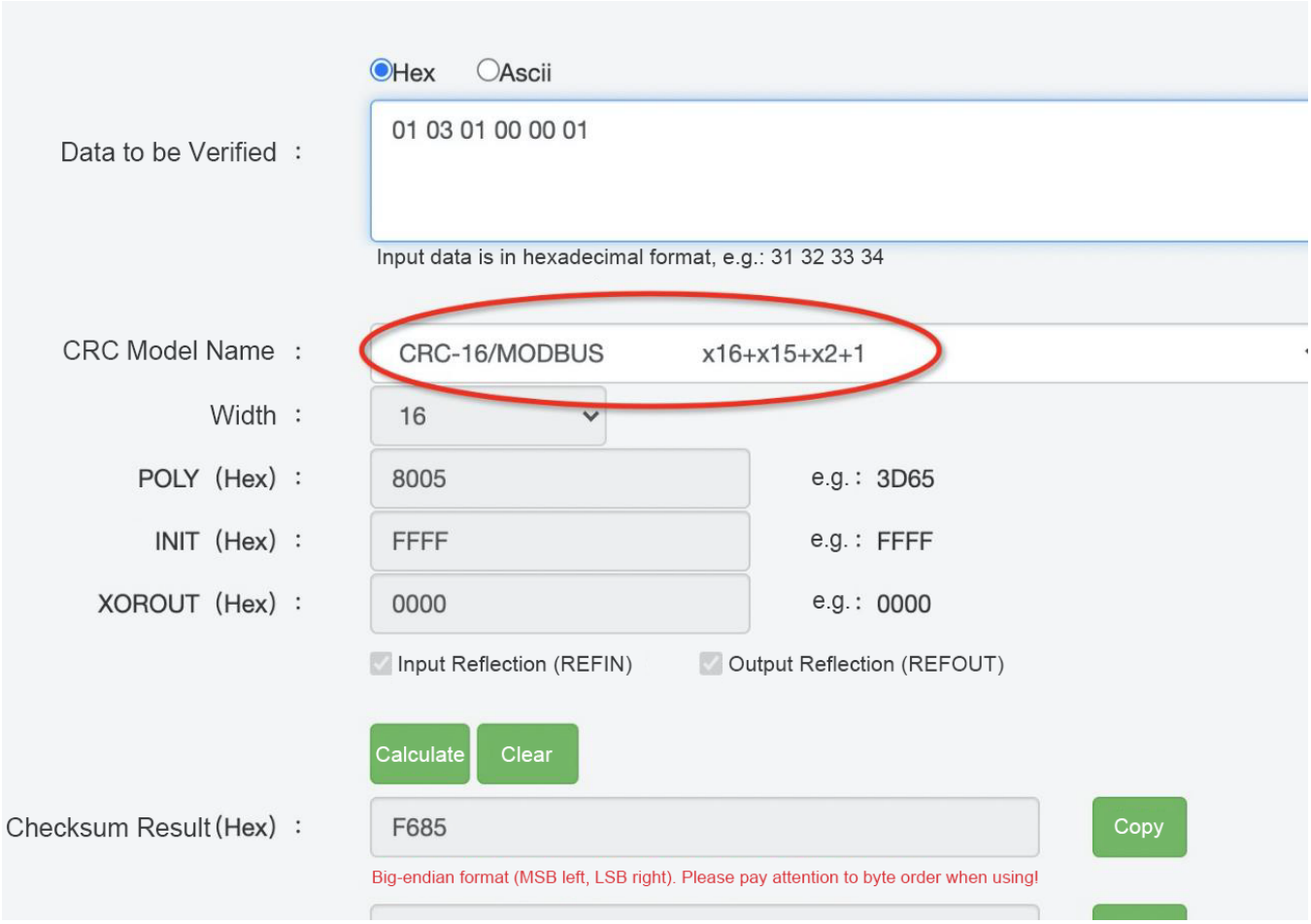
01 03 fixed head，03 indicates read

01 00 indicates fuel height

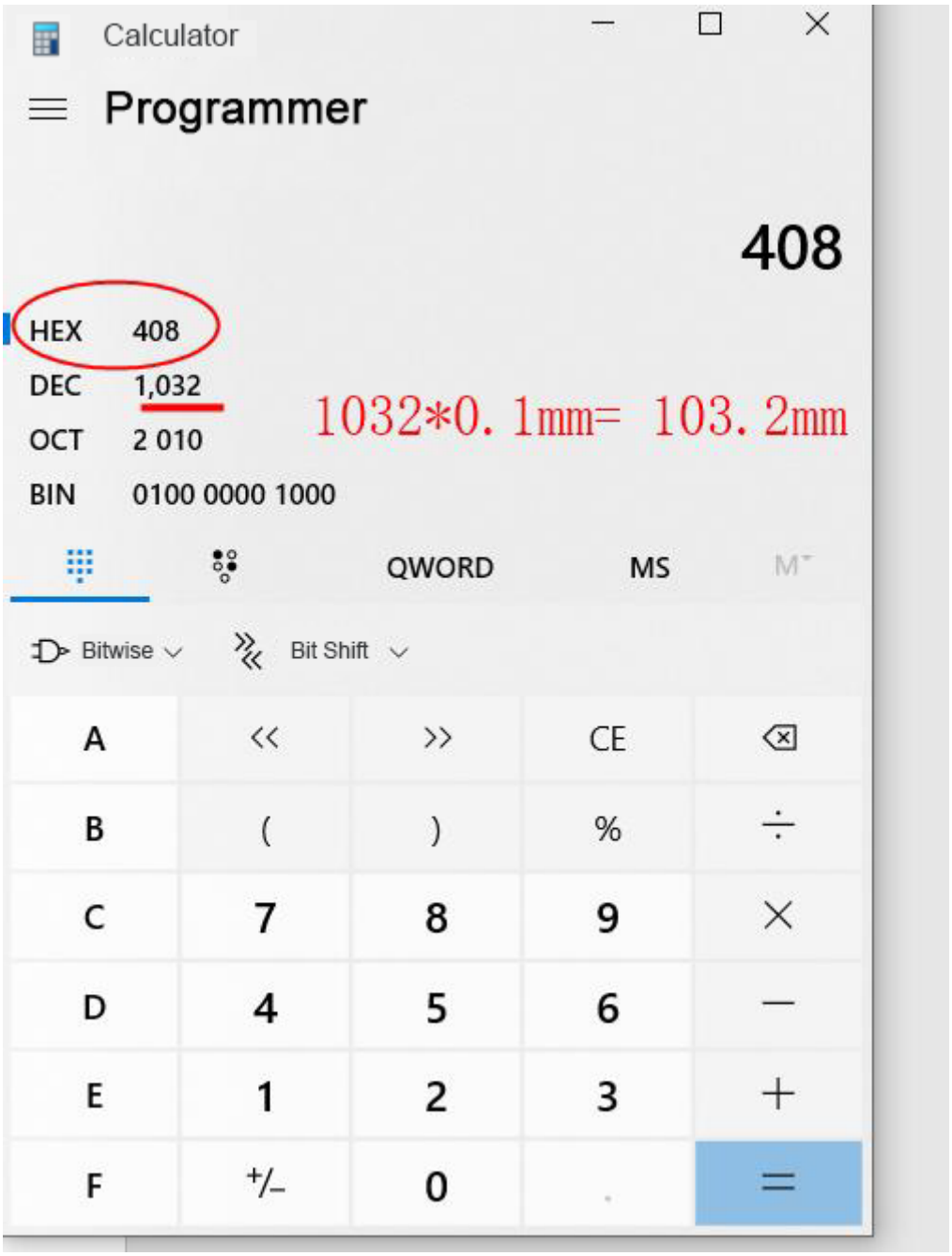
Read only	0X0100	Distance	Unit 0.1mm

00 01 indicates net address（maximum FF FF，which means 65535）

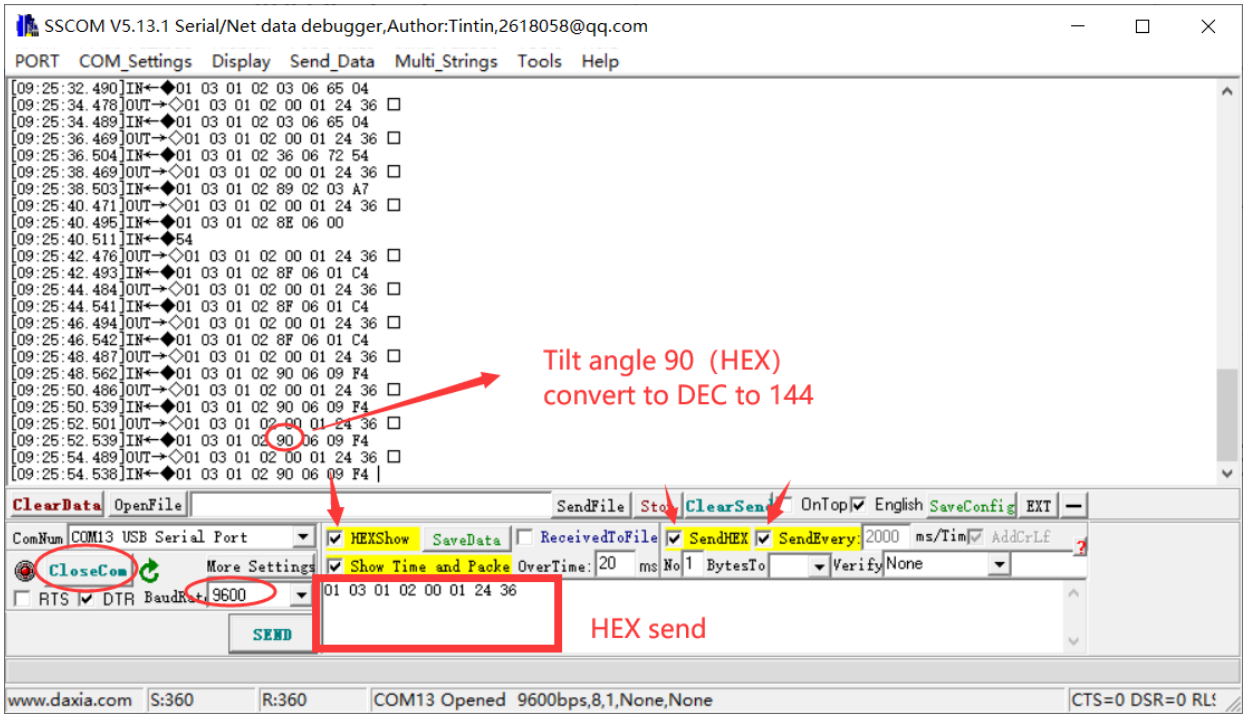
85 F6 is check sum，01 03 01 00 00 01 checksum is F685，high bit left, low bit right, which is 85F6 after coverted



Sensor Reply： 01 03 01 00 04 08 47 30



(2) read tilt angle



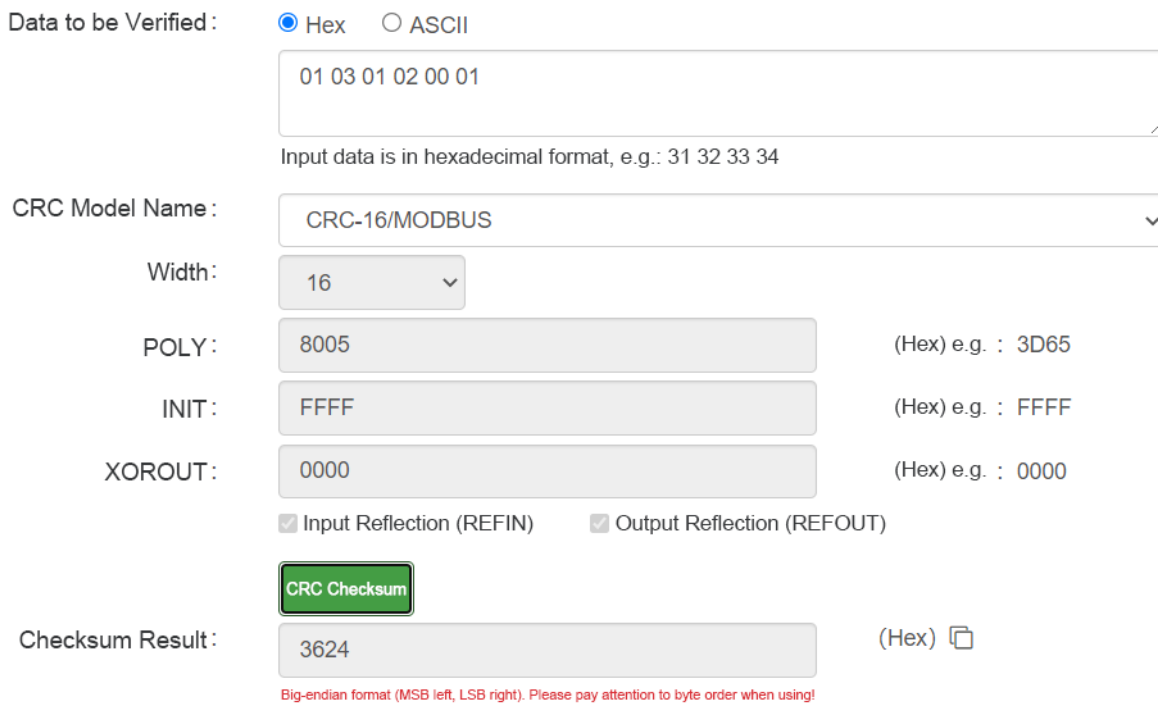
Send Command：01 03 01 02 00 01 24 36

01 03 fixed head

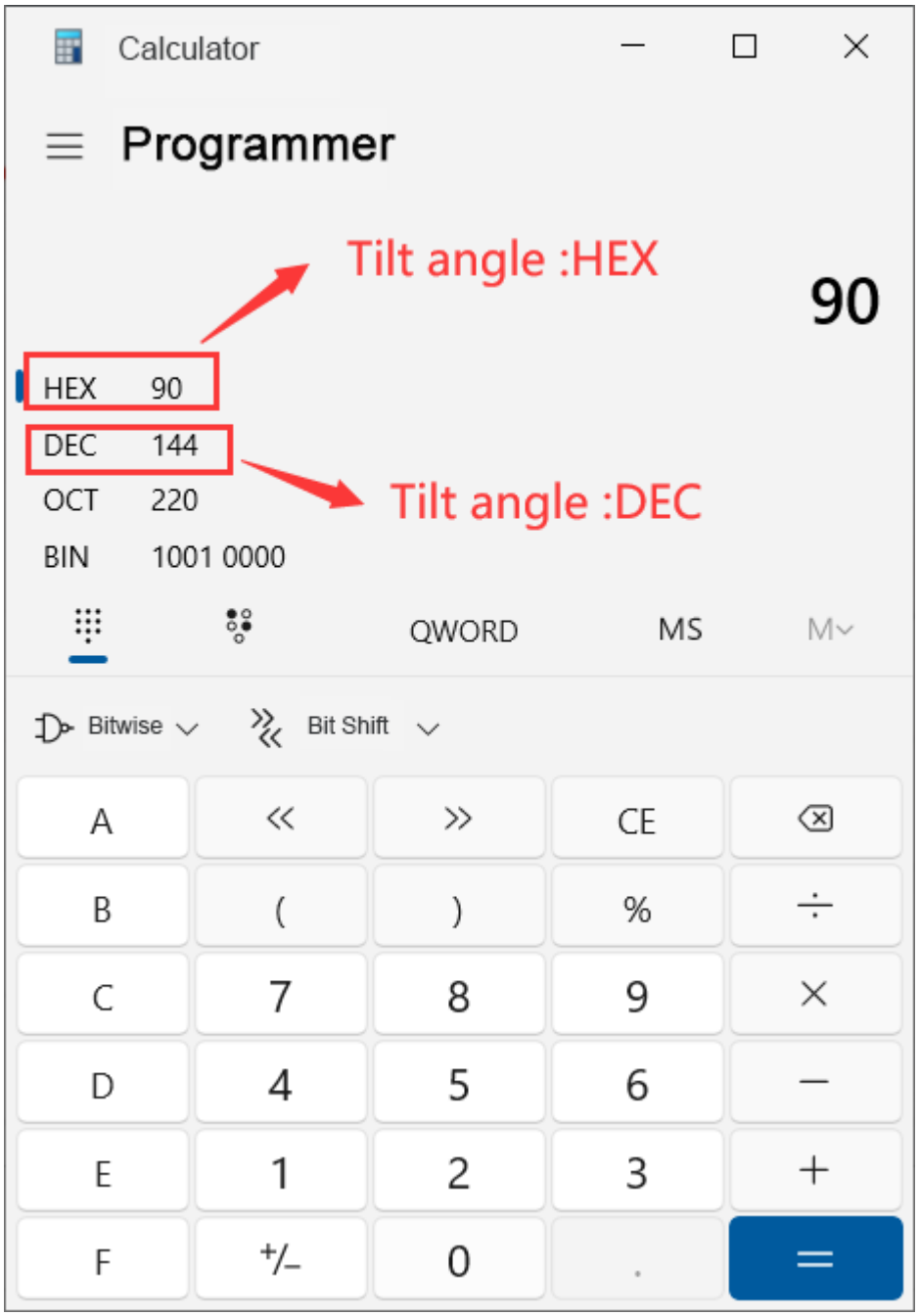
01 02 command to read tilt angle

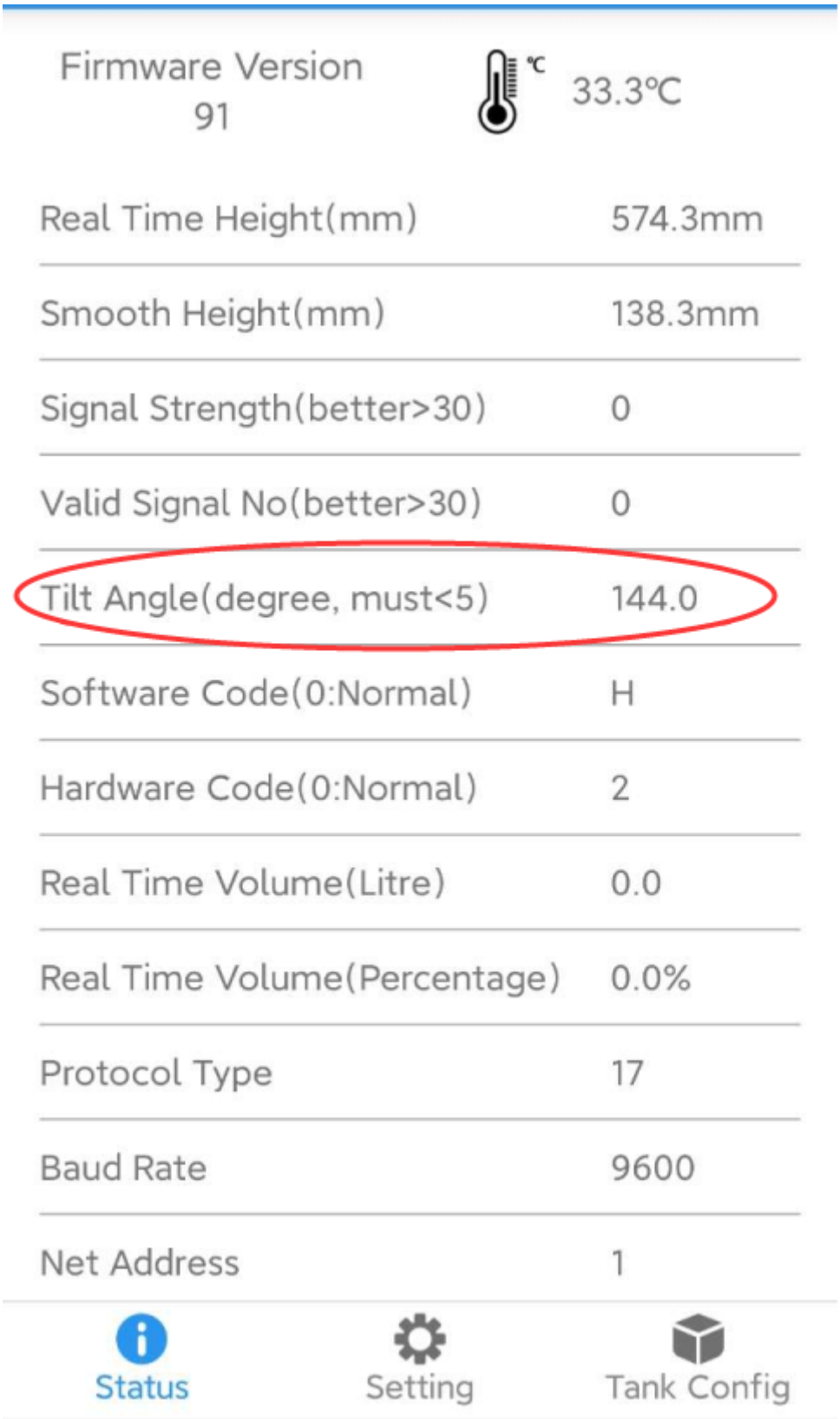
00 01 indicates net address（maximum FF FF, which means 65535）

24 36 check sum



Sensor Reply：01 03 01 02 90 06 09 F4


Calculator
Programmer
Tilt angle :HEX
90
HEX 90
DEC 144
OCT 220
BIN 1001 0000
Tilt angle :DEC
QWORD
MS
Bitwise
Bit Shift
A
CE
B
(
)
%
C
7
8
9
D
4
5
6
E
1
2
3
F
+/-
0


Firmware Version
91
℃
33.3℃
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