USB Communication Protocol for CO2mini

Format to USB Protocol

Item	MSB	LSB	Sum	CR

Item "P"(50h): CntR (Relative Concentration of CO2)

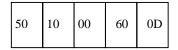
"B"(42h): Tamb (Ambient Temperature)

MSB 8 bit Data Msb LSB 8 bit Data Lsb

Sum Item+MSB+LSB=SUM
CR 0Dh, End of the message

Example of USB Protocol

1. Relative Concentration of CO2 (CntR)



Item 50h \rightarrow "P" the item code of CntR

Data MSB 10h

LSB 00h

Relative Concentration of CO2 = 1000ppm

Sum CheckSum 50h+10h+00h=60H (Only Low Byte)

CR 0Dh → 'Carriage Return' means End of Message

2. Ambient Temperature (Tamb)

42	27	50	В9	0D
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Item $42h \rightarrow$ "B" the item code of ambient temperature

Data MSB 27h LSB 50h

Real Temperature Value = 27.50 °C

Sum CheckSum 42h+27h+50h=B9h (Only Low Byte)
CR 0Dh → 'Carriage Return' means End of Message

