

USB Communication Protocol for CO2mini

Format to USB Protocol

Item	MSB	LSB	Sum	CR
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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)

50	10	00	60	0D
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Item 50h → "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	B9	0D
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Item 42h → "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