Temperature:

var1 = (adc\_T / 16384.0 - dig\_T1 / 1024.0) \* dig\_T2;

var2 = ((adc\_T / 131072.0 - dig\_T1 / 8192.0) \*\* 2) \* dig\_T3;

t\_fine = var1 + var2;

T = t\_fine / 5120.0;

Pressure:

var1 = t\_fine / 2.0 - 64000.0;

var2 = var1 \* var1 \* dig\_P6 / 32768.0;

var2 += var1 \* dig\_P5 \* 2.0;

var2 = var2 / 4.0 + dig\_P4 \* 65536.0;

var1 = (dig\_P3 \* var1 \* var1 / 524288.0 + dig\_P2 \* var1) / 524288.0;

var1 = (1.0 + var1 / 32768.0) \* dig\_P1;

P = 1048576.0 - adc\_P;

P = (P - var2 / 4096.0) \* 6250.0 / var1;

var1 = dig\_P9 \* P \* P / 2147483648.0;

var2 = P \* dig\_P8 / 32768.0;

P = P + (var1 + var2 + dig\_P7) / 16.0;