```
+ ((float)dev->calib.par p2 * var1)) / 524288.0f);
    var1 = ((1.0f + (var1 / 32768.0f)) * ((float)dev->calib.par p1));
    calc pres = (1048576.0f - ((float)pres adc));
    /* Avoid exception caused by division by zero */
    if ((int)var1 != 0) {
        calc pres = (((calc pres - (var2 / 4096.0f)) * 6250.0f) / var1);
        var1 = (((float)dev->calib.par p9) * calc pres * calc pres) / 2147483648.0f;
       var2 = calc pres * (((float)dev->calib.par p8) / 32768.0f);
       var3 = ((calc_pres / 256.0f) * (calc_pres / 256.0f) * (calc_pres / 256.0f)
            * (dev->calib.par p10 / 131072.0f));
       calc_pres = (calc_pres + (var1 + var2 + var3 + ((float)dev->calib.par_p7 * 128.0f)) / 16.0f);
    } else {
        calc_pres = 0;
    }
    return calc_pres;
}
/*!
 * @brief This internal API is used to calculate the
 * humidity value in float format
static float calc humidity(uint16 t hum adc, const struct bme680 dev *dev)
   float calc hum = 0;
   float var1 = 0;
   float var2 = 0;
   float var3 = 0;
   float var4 = 0;
   float temp_comp;
    /* compensated temperature data*/
   temp comp = ((dev->calib.t fine) / 5120.0f);
    var1 = (float)((float)hum_adc) - (((float)dev->calib.par_h1 * 16.0f) + (((float)dev->calib.par_h3 / 2.0f)
       * temp comp));
```