```
pressure_comp = (int32_t)(pressure_comp) + ((var1 + var2 + var3 +
        ((int32 t)dev->calib.par p7 << 7)) >> 4);
    return (uint32 t)pressure comp;
}
/*!
 * @brief This internal API is used to calculate the humidity value.
static uint32 t calc humidity(uint16 t hum adc, const struct bme680 dev *dev)
   int32_t var1;
   int32 t var2;
   int32 t var3;
   int32 t var4;
   int32 t var5;
   int32 t var6;
   int32 t temp scaled;
   int32 t calc hum;
   temp_scaled = (((int32_t) dev->calib.t_fine * 5) + 128) >> 8;
   var1 = (int32 t) (hum adc - ((int32 t) ((int32 t) dev->calib.par h1 * 16)))
        - (((temp scaled * (int32 t) dev->calib.par h3) / ((int32 t) 100)) >> 1);
    var2 = ((int32 t) dev \rightarrow calib.par h2)
       * (((temp_scaled * (int32_t) dev->calib.par_h4) / ((int32_t) 100))
            + (((temp scaled * ((temp scaled * (int32 t) dev->calib.par h5) / ((int32 t) 100))) >> 6)
                /((int32\ t)\ 100)) + (int32\ t)(1 << 14))) >> 10;
   var3 = var1 * var2;
   var4 = (int32 t) dev -> calib.par h6 << 7;
   var4 = ((var4) + ((temp scaled * (int32 t) dev->calib.par h7) / ((int32 t) 100))) >> 4;
    var5 = ((var3 >> 14) * (var3 >> 14)) >> 10;
   var6 = (var4 * var5) >> 1;
    calc hum = (((var3 + var6) >> 10) * ((int32 t) 1000)) >> 12;
    if (calc hum > 100000) /* Cap at 100%rH */
```