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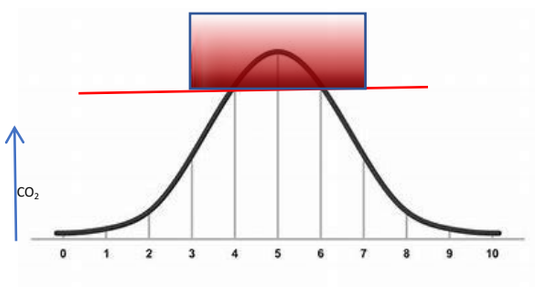
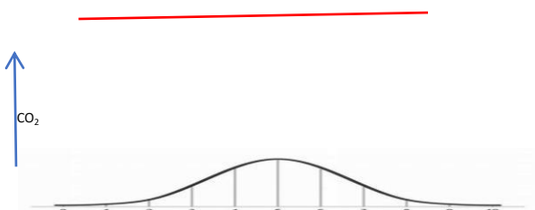
TOC (Total Organic Carbon) basic requirements of CO_2 detection

Processing the analytic emittes onely a little amount of CO_2 gas what is mixed with the carryer gas.
If the inner volume of sensor is huge, the resulting signal quality will be bad because of the gas exchange im in the volume of sensor.

Highly polluted sample will have a high peak CO_2 level.
If the measured range of the sensor is to small, the process will fail.
Same will happen if the T90 Time of the sensor is slow and the peak is very short.



Low polluted sample will have a low CO_2 concetration.
If the measuring range of the sensor is huge the error of sensor in the low range will rise the error of result until it can not be measured because it is only noise.
Same will happen if the noise sensor is high and the signal is very low.



If the read out time of sensor(frequence of data) is low, the curve will be like stairs and the calculated TOC will have a huge errror.

In additional a temperatur stable and pressure compensated sensor will enhance the qulaity or analytic result.