## VOC Sensor

## Description:

The sensors respond to changes in the composition of the ambient atmosphere.

The sensors detect a wide range of gases, including CO, NO2, NH3, CH4 as well as toxic and explosive gases in very low concentrations. Further a wide variety of volatile organic compounds (VOCs) can be measured

These maintenance-free sensors show high sensitivity, good stability, long lifetime, and short response/recovery times. They can be operated in a wide ambient temperature range (-40°C to +70°C) and a humidity range of 5 to 100% RH without condensation.

Chip size: 2 x 2 x 0.8 mm Package: CSP or QFN

Supply voltage 1,8 V up to 16.5 V (different products)

Ambient temperature range -40° to 85°C

Ambient humidity 5 to 100% RH, non-condensing

Power consumption 20 mW (continuous measurement mode)

Typical acquisition time 1 Second

Cross sensitivity humidity and hydrogen (compensation with integrated humidity

sensor possible)

Detectable gases VOC's: Alcohols, aldehydes, ketones, organic acids,

amines, aliphatic and aromatic hydrocarbons

CO2, CO, NO2, NH3, CH4 and more

## Examples for achievable accuracies:

CO 05 – 500 ppm, 2 ppm detection limit

NO2 0.1 – 2 ppm, 100 ppb detection limit

CH4 0.01% - 4%, 0.01% detection limit

VOC 400-2000 ppm, 10 ppm detection limit