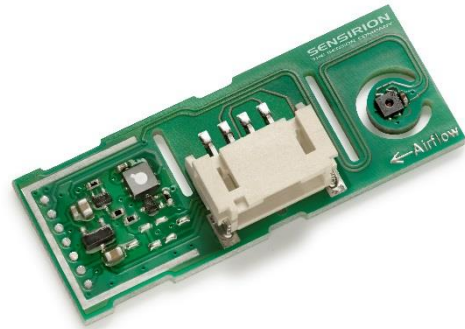


Datasheet SVM30

Multi-gas, humidity and temperature sensor combo module

- Measures indoor air quality parameters total VOC (tVOC), CO₂-equivalent (CO₂eq), relative humidity RH and temperature T
- Automatic baseline compensation and humidity compensation of MOX gas sensor
- Outstanding long-term stability and reliability
- Fully factory calibrated and tested
- Digital I2C interface
- 5V supply voltage
- Dimensions: 39 x 15 x 6.5 mm



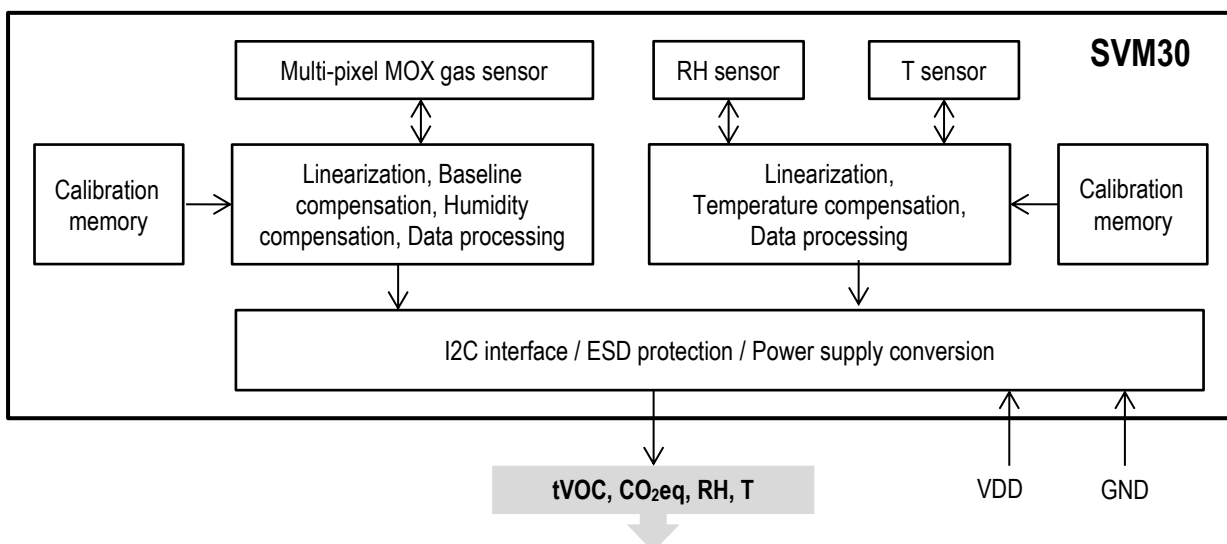
Product Summary

The SVM30 is a Multi-gas, humidity and temperature sensor combo module containing an SGP30 gas sensor as well as an SHTC1 humidity and temperature sensor.

The SGP30 gas sensor on the SVM30 combines multiple metal-oxide sensing elements – the pixels – on one chip, thereby offering the possibility to measure a total VOC signal (tVOC) and a CO₂ equivalent signal (CO₂eq) with one single sensor-chip. The SVM30 further offers calibrated air quality output signals as well as compensation of humidity cross-sensitivity. The sensing element features an unmatched robustness against contamination by siloxanes present in real-world applications enabling a unique long-term stability and low drift.

The humidity and temperature sensor on SVM30 covers a humidity measurement range of 0 to 100 %RH and a temperature measurement range of -20 to 85 °C with a typical accuracy of ±5 %RH and ±1 °C.

The gas and RH/T sensor components are designed with Sensirion's CMOSens® technology. This technology offers a complete sensor system on a single chip, including the sensing elements, analog and digital signal processing, A/D converter, calibration and data memory and a digital communication interface supporting I2C standard mode. Sensirion's state-of-the-art production process, including full calibration and testing of the sensors, guarantees high reproducibility and reliability.



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