



## MS5536C

### SMD Gage Pressure Module

#### SPECIFICATIONS

- **Pressure range -400 to 1000 mbar (Optional -1000 to 400 mbar)**
- **0.1 mbar Resolution**
- **Factory Calibrated (coefficients for software compensation store on-chip)**
- **3-wire serial interface**
- **Low voltage / low power**

MS5536C is a family of high-resolution factory calibrated pressure sensors. The devices include a piezoresistive pressure sensor and an ADC-Interface IC. The 3-wire serial interface ensures simple communication with any microcontroller. The devices provide digital pressure and temperature information as 16-Bit data word each. In addition 64-Bit of individually calibrated compensation coefficients are stored allowing for a highly accurate software compensation of process spread and temperature effects.

The devices have a very low standby current and automatically enter power down mode after each conversion. The optimum compromise of refresh rate and average current consumption can be defined by the application software.

## FEATURES

- 16-Bit ADC Resolution
- Supply voltage 2.2 V to 3.6 V
- Low supply current
- -40°C to +85°C
- Small size
- No external components required

## APPLICATIONS

- Medical application
- Blood pressure meter
- Air flow measurement
- HVAC application

## BLOCK DIAGRAM

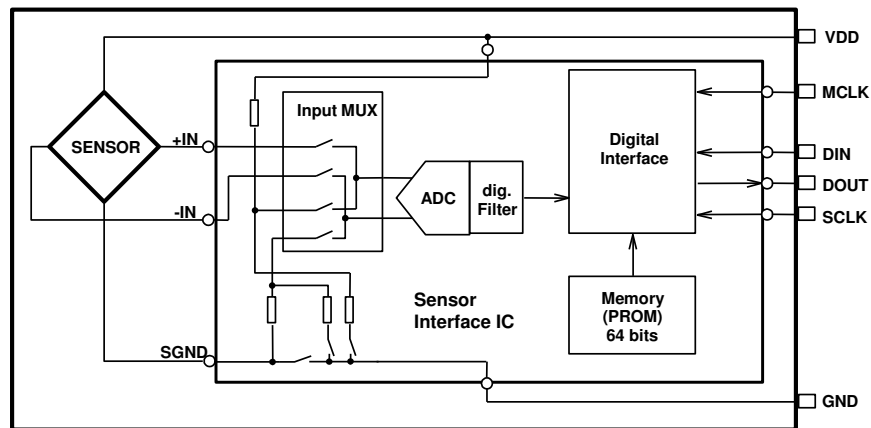


Fig. 1: Block diagram MS5536C