



## MS5607-02BA03

Barometric Pressure Sensor, with stainless steel cap

### SPECIFICATIONS

- ◆ High resolution module, 20cm
- ◆ Fast conversion down to 1 ms
- ◆ Low power, 1  $\mu$ A (standby < 0.15  $\mu$ A)
- ◆ QFN package 5.0 x 3.0 x 1.0 mm<sup>3</sup>
- ◆ Supply voltage 1.8 to 3.6 V
- ◆ Integrated digital pressure sensor (24 bit  $\Delta\Sigma$  ADC)
- ◆ Operating range: 10 to 1200 mbar, -40 to +85 °C
- ◆ I<sup>2</sup>C and SPI interface up to 20 MHz
- ◆ No external components (Internal oscillator)
- ◆ Excellent long term stability

The MS5607-02BA is a new generation of high resolution altimeter sensors from MEAS Switzerland with SPI and I<sup>2</sup>C bus interface. This barometric pressure sensor is optimized for altimeters and variometers with an altitude resolution of 20 cm. The sensor module includes a high linearity pressure sensor and an ultra low power 24 bit  $\Delta\Sigma$  ADC with internal factory calibrated coefficients. It provides a precise digital 24 bit pressure and temperature value and different operation modes that allow the user to optimize for conversion speed and current consumption. A high resolution temperature output allows the implementation of an altimeter/thermometer function without any additional sensor. The MS5607-02BA can be interfaced to virtually any microcontroller. The communication protocol is simple, without the need of programming internal registers in the device. Small dimensions of only 5.0 mm x 3.0 mm and a height of only 1.0 mm allow for integration in mobile devices. This new sensor module generation is based on leading MEMS technology and latest benefits from MEAS Switzerland proven experience and know-how in high volume manufacturing of altimeter modules, which have been widely used for over a decade. The sensing principle employed leads to very low hysteresis and high stability of both pressure and temperature signal.

