

Method for reading data from inertial sensors**Abstract**

The invention relates to a method for reading data from sensors (200) comprising: determining a sequence of measured data over time by means of a sensor (200), wherein the sequence of measured data over time is generated by step-by-step changes in the measured data at input times, which are determined by an input frequency f_a and have a time interval of a period $1/f_a$ of the input frequency; reading output data from the sensor (200) at read times, which are determined by a read frequency f_s and have a time interval of a period $1/f_s$ of the read frequency, where the read frequency f_s is smaller than the input frequency f_a ; determining, by means of a low-pass filter (220) of the sensor (200), the ratio N between the input frequency f_a and the read frequency f_s from the sequence over time of the numbers of input times lying between two adjacent read times. The output data to be read at the read times is generated in the sensor (200) by extrapolation of elements of the sequence of measured data over time generated before the particular read times on the basis of the ratio N between the input frequency f_a and the read frequency f_s .

Fig. 3