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(54) **An attitude determination system suitable for a spacecraft.**

(57) Attitude determination system for an aircraft or spacecraft, connectable to a power source and comprising multiple sensors for measuring attitude-signals of the aircraft or spacecraft, a computation unit for calculating the attitude from the measurement signals of the multiple sensors, and a transmission system for entertaining communication between the multiple sensors and the computation unit, wherein the multiple sensors are arranged with a variable sampling rate, which system comprises an energy manager module for saving on energy consumption by determining the value of the variable sampling rate of the sensors depending on an estimated measurement error in the calculated attitude.

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