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Abstract	During the last years small satellites (micro, nano and pico satellites) becomes more and more a field for commercial missions. The new requirements, especially high reliability and smartness, results in the design and development of new sensors and actuators especially for long life time missions. This includes not only high performance, but also smartness , means information of the actual potential and performance from the actuators back to the attitude control system, to achieve better and faster performance of the attitude control systems. The paper describes concepts, sensors and actuators for such smart systems.