



APPLICATION SUMMARY

One of the more efficient means of satellite attitude control is using reaction wheels. Reaction wheels scale easily making them excellent candidates for attitude control systems in a CubeSat. They create small torque changes necessary to keep a communication antenna pointing at earth or a telescope pointing at a star. By utilizing a micro torque sensor, the response time and torque output of the motor/flywheel can be measured, allowing for precision control loop gains to be established for the PID balancing functions used to stabilize the spacecraft.

PRODUCTS IN USE

FUTEK's QTA141 Micro Reaction Torque sensor paired with the USB220 High Resolution USB Solution.

All FUTEK application illustrations are strictly conceptual. Please contact us with questions.

Sensor Solution Source

Load · Torque · Pressure · Multi Axis · Calibration · Instruments · Software

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U.S. Manufacturer