

Spaceflight Heritage
We Deliver Hi-Rel
Rad-Hard Systems

Attitude Determination and Control for CubeSats and SmallSats

The MAI-400 electromagnet assembly is offered in three different models, each with its own set of unique capabilities suited for specific mission requirements. An optional electromagnet driver PCB board is provided that can drive a set of three electromagnets.



Torque Rod

MAI-500 ADACS

Torque Rod Specifications [3 Types]

Dipole Moment:

Type 1: 0.15 Am^2

Type 2: 0.6 Am^2

Type 3: 0.3 Am^2

Operating Temperature: -40 to 80

Weight:

Type 1: 18 grams

Type 2: 57 grams

Type 3: 55 grams

Dimensions:

Type 1: $1.32 \times 0.58 \times 0.45$

Type 2: $2.64 \times 0.71 \times 0.52$

Type 3: $1.80 \times 0.80 \times 0.80$

DC Voltage: 5V

Current:

Type 1: 0.09 A

Type 2: 0.10 A

Type 3: 0.11 A

Specifications Driverboard

Dimensions: $2.75" \times 2.75" \times 0.45"$ (max height)

Operating Temperature: -40 to 80 Degrees C

Weight: 24 grams

Interface: I2C, RS232

DC Voltage: 5V

Current: 0.03A

Complete ADACS and ADACS
components for CubeSats and
Small Spacecraft.

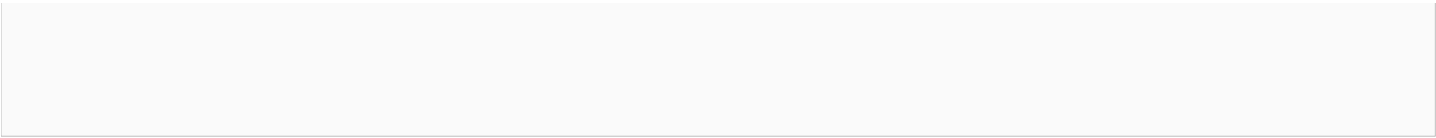
Adcole Maryland Aerospace's
compact guidance and attitude
control systems are designed to
accommodate a variety of sensor
options and combinations. ADACS
sensor configuration examples:

- 2 Star Trackers
- 1 Star Tracker - 1 Sun Sensor
- 2 Earth Horizon Sensors

Technical Questions:
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HERITAGE AND MISSION HISTORY

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Sun Sensors
CubeSats
Small Spacecraft
ADACS
Star Trackers