



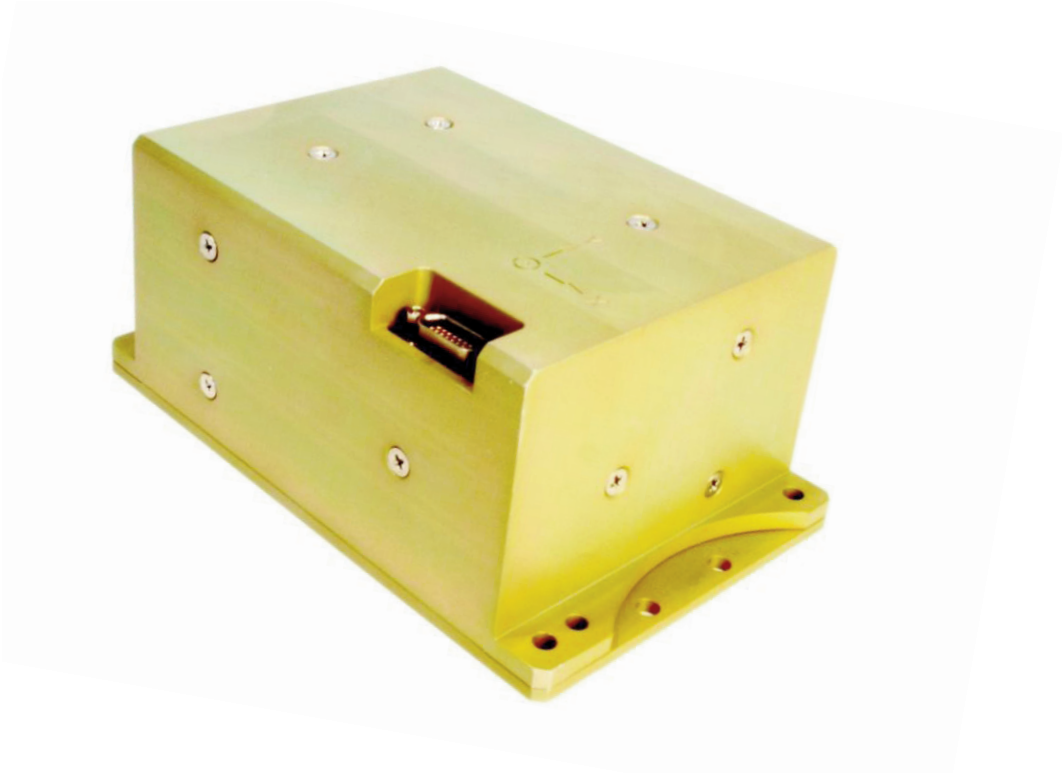
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Space Technology

AOCS-Components



Gyro-System AGS-1 for Small Satellites

The AGS-1 is a high integrated rate sensor with the following features:

- Tri-axial rotation measurement
- Temperature-compensated data
- Small, low mass, low power consumption
- Economic design for small satellites
- Two modes of operation – free running and triggered
- Integration of additional acceleration sensors on request

Parameters**Data****Performance:**

Channels	3
Range (per channel)	$\pm 40 \text{ }^\circ/\text{s}$
Bias (per channel)	$\leq 1 \text{ }^\circ/\text{h}$
Noise (random walk per channel)	$\leq 0.1 \text{ }^\circ/\sqrt{\text{h}}$
Measurement frequency	200 Hz
Start-up time	$< 0.3 \text{ s}$

Mechanical:

Mass	$< 1 \text{ kg}$
Dimension	134 mm x 85 mm x 60 mm

Electrical:

Voltage	18 V to 34 V
Power consumption	
Steady state	8 W
Maximum	10 W

Data Interfaces:	RS422 (others on request)
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General:

Operation temperature range	-15°C to $+40^\circ\text{C}$
Non-operation temperature range	-30°C to $+60^\circ\text{C}$
Design lifetime	5 years in low earth orbit
Storage time	3 years

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