



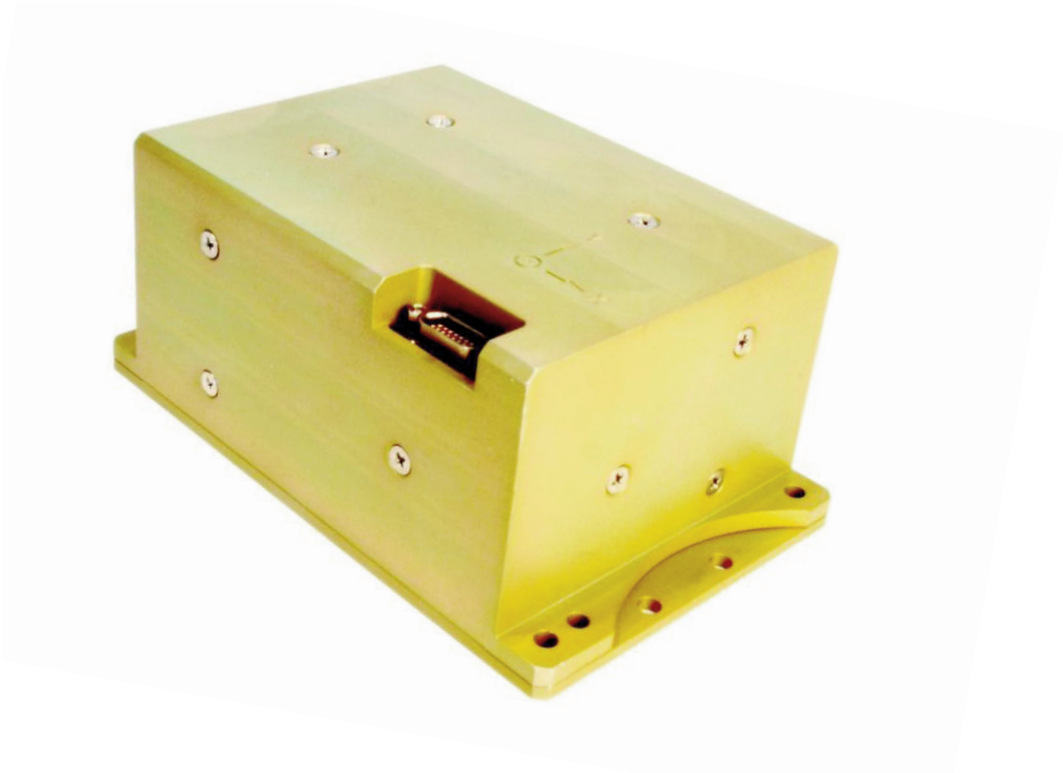
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## **Space Technology**

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	150 mm x 100 mm x 70 mm

**Electrical:**

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

<b>Data Interfaces:</b>	RS422 (others on request)
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**General:**

Operation temperature range	$-20^\circ\text{C}$ to $+50^\circ\text{C}$
Non-operation temperature range	$-30^\circ\text{C}$ to $+60^\circ\text{C}$
Design lifetime	5 years in low earth orbit
Storage time	3 years

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