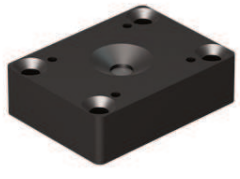
SUN SENSOR

High-precision sun sensing, perfectly tailored for small satellites

PYXIS SPACE is a young and innovative supplier for the small satellite sector, committed to the New Space philosophy of fast, cost-efficient, and reliable development. The company builds on more than 15 years of heritage in satellite technology and provides compact, high-performance solutions tailored to the needs of research institutes, universities, and commercial missions worldwide.



Our sun sensors provide a simple and reliable way to determine the sun vector for sun pointing or to complement three axis attitude determination. The miniature sun sensor is fully digital, offering robust and interference-resistant measurements. Built from radiation-tolerant COTS components, it has proven flight heritage in LEO, ensuring dependable performance for your mission. The sensor is engineered for volume production, high reliability, and excellent performance at competitive cost.

FEATURES

- Miniaturized design
- Albedo immune
- Digital sun vector output
- Pre-calibrated for high precision
- Low power consumption
- Measurement rate up to 10 Hz
- Flight-proven since 2024

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SPECIFICATIONS

Accuracy, 2σ	Standard: 1° Pre-calibrated: 0.2°
Data Rate	Up to 10 Hz
Slew Rate	Up to 10 °/s
FOV (HxV)	92° x 92°
Interface	CAN 2.0B
Power Supply	+4.5 … +5.5 V
Power Consumption	40 mW @ 4Hz
Mass	12 g
Dimensions	9 x 18 x 24 mm^3
Environment	-40 °C to +80 °C
TRL	9
Radiation	10 kRad

OPTIONS

- I2C or UART interface option
- Calibration hard- and software
- EGSE software

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