

SPACECRAFT SYSTEMS

0.1 MPa Micro Pressure Sensor

The 0.1 MPa Micro Pressure Sensor is a key component for measuring the gas tank pressure in satellite propulsion systems. It adopts a metal elastic diaphragm structure for pressure detection, achieving high performance with low cost. The sensor features lightweight construction, compact size, high accuracy, and low power consumption, making it suitable for micro- and small-satellite applications.

TECHNICAL SPECIFICATIONS

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Dimensions (mm)	22 × 22 × 56
Mass (g)	≤ 50
Mounting Material	1Cr18Ni9Ti
Operating Temperature (°C)	-20 to +50
Storage Temperature (°C)	-30 to +55
Communication Interface	Y4-4ZJLM

Quick Overview

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Key Features

- Advanced ion-beam etching and micro-machining technology.
- Integrated electromechanical design with high integration level.
- Lightweight, compact, highly accurate, and energy-efficient.
- Excellent adaptability to harsh space environments.

Applications

- Used for gas pressure measurement in satellite propulsion systems. Proven flight experience since **2018**, applied in **micro-satellite** missions.

Documentation & Resources

- [Technical Specifications](#)

- [Applications](#)