



Mission-critical precision. Proven performance.

Force sensing solutions for
Aerospace and Defense

VPG force sensors
Celtron • Revere • Sensortronics • Tedeo-Huntleigh

VPGforcesensors.com

Sensing expertise that elevates your mission

VPG Force Sensors has been a leading source of precision load cells and force sensing technologies for more than 50 years. Together with our industry-leading brands – Celtron, Sensortronics, Tedea-Huntleigh, and Revere – we deliver highly engineered solutions for mission-critical aerospace and defense applications.

A trusted partner for your success

OEMs around the world depend on VPG Force Sensors to help solve complex challenges. Whether you need standard form factors or fully custom designs, our team works alongside yours to create tailored solutions that meet tight tolerances, complex specifications, and stringent certification requirements.

Force sensors built for extreme environments

Designed to operate in the harshest aerospace and defense conditions—from zero gravity to supersonic speeds—VPG’s strain gage-based force sensors provide unmatched durability, precision, and signal stability.

We manufacture our own foil strain gages in-house and control every critical step of the bonding, clamping, and curing processes to ensure repeatable accuracy and long-term reliability.

Our sensors are built to withstand:

- Extreme temperature ranges
- Vibration and shock
- High humidity
- Corrosive substances
- Electromagnetic interference

Applications across Aerospace and Defense

Force Sensors load cells and force sensors are proven in critical applications across air, land, sea, and space platforms.

Ideal applications include:

- **Aircraft structural and fatigue testing** – For load verification under dynamic and static conditions
- **Wing and fuselage validation** – Compression and tension sensing for material integrity
- **Payload monitoring and balance control** – Accurate weight distribution across systems
- **Jet engine test benches and thrust stands** – Measuring axial force during testing
- **Satellite deployment systems** – Compact, low-profile sensors for orbital reliability
- **Missile launch and targeting systems** – Precision sensing in compact, rugged environments

If you require precision measurement in your aerospace system, we've likely already engineered it, enabling fast customization to your specific requirements – or can rapidly develop it.

Innovation that propels the industry

As a pioneer in advanced sensor design, we continuously invest in technology that meets evolving aerospace and defense needs:



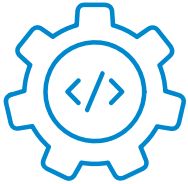
Available options include:

- IP68-rated sealing for immersion
- Matched output pairs for multi-sensor applications
- OIML-certified models for global standards compliance
- Full mounting assemblies and custom brackets

Custom solutions, MIL-STD-compliant manufacturing

VPG Force Sensors is a preferred partner for OEMs seeking engineered solutions that meet MIL-STD and aerospace-grade quality requirements.

From prototyping to volume production, we support your teams with:



Fast-track

development
and prototyping



Full design

documentation
and traceability



End-to-end

support through the
product lifecycle

Let's solve your next engineering challenge together.

Contact us

Speak with your local VPG Force Sensors representative or visit www.vpgforcesensors.com to explore varied technical resources.

VPG Force Sensors develops and manufactures the world's most advanced force measurement sensors and solutions, delivering optimal performance and empowering tomorrow's innovations.

With our renowned brands, we offer the largest range of load cells, weighing instruments and accessories available from a single-source supplier. Chosen for their high accuracy, uncompromising quality and long-lasting reliability, our products are implemented in millions of machines, devices and systems around the world. Due to our large manufacturing capacity, fast turnaround on orders, high product quality and competitive cost structure, we are a leading load cell supplier to many industries and markets.

VPG Force Sensors is part of VPG (Vishay Precision Group), a global leader in precision measurement sensing technologies.



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