

## GRAS Microphones Ideal Fit for Aerospace Testing Applications

February 2016, MARIETTA, GA~ GRAS Sound and Vibration ([www.gras.us](http://www.gras.us)) offers a wide range of ruggedized measurement microphones designed ideally for extreme aerospace testing applications including:

- Wind Tunnel Testing
- Flight Testing
- Static Engine Ground Testing
- Acoustic Fatigue Testing



GRAS offers high dynamic range microphones (up to 196 dB) with low sensitivity specially designed to handle these extreme environments.

In terms of wind tunnel testing, GRAS offers a variety of flush-mount, surface mount, nosecone array, and turbulence screen microphones that can be deployed in a variety of ways within wind tunnels including on floors, walls, ceilings, or in the air directly facing the oncoming wind. For flight testing applications, our surface-mounted microphones can be easily deployed on the exterior fuselage or wings of aircraft while in flight using special adhesives (no drilling needed). In terms of static engine ground testing, GRAS offers various types of array microphones that can be deployed to the rear of jet or rocket engines while they are running on a static outdoor test stand. Another common aerospace testing application is acoustic fatigue testing, which could involve a satellite structure or aircraft fuselage structure being held on a stand in a lab and subjected to very high acoustic power (i.e. very high decibel noise directed towards the structure). The high-powered noise causes

vibrations, cracking of structure members, and sometimes a full collapse of the structural integrity of the structure.



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