

Advanced Sensors Technology: Making the Best Strain Gage Better

ARTIFICIAL INTELLIGENCE
(AI SYSTEM =
FOIL STRAIN GAGES + MACHINE LEARNING)



Advanced Sensors Technology strain gages are used for many applications throughout the world — in experimental stress analysis, and as the sensing elements in a wide variety of transducers for measuring physical variables other than strain, including weight, force, torque, pressure and more

Further design improvements over traditional strain gage types include:

Tighter resistance tolerances - down to +/-0.1% even in high resistance gage patterns

Improved gage-to-gage repeatability, and enhanced measurement stability


Strain gage grids are fully encapsulated

Product portfolio includes linear, shear and circular gages, arranged as individual, half-bridge and full-bridge configurations

An online community for everyone involved in the high-precision measurement of stress and strain.

STRAINBLOG

THE ESSENTIAL BLOG FOR ENGINEERS

 strainblog.com

 [@strainblog](https://twitter.com/strainblog)

 www.linkedin.com/in/strainblog

 <http://youtube.micro-measurements.com>

Further design improvements over traditional strain gage types include:

Resistance Range from 350 Ω to 20 k Ω ,
with added flexibility in mounting options

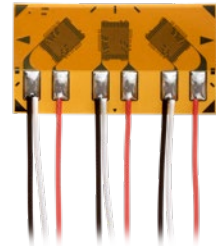
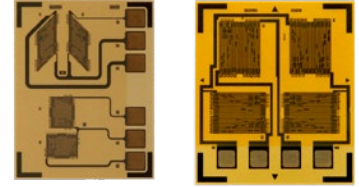
In the full-bridge gage configurations, all intra-bridge connections are integrated directly into the pattern itself, eliminating the need for traditional intra-bridge soldering

Gold-plated solder pads (on Modified Karma foil patterns) improves solder-joint reliability, while reducing the risks of solder pad oxidation prior to lead wire attachment

The prototype design and manufacturing of anywhere from a single strain gage piece up to OEM volumes may be easily accommodated, with uniform high quality and competitive lead times

Pre-attached leads or cables simplify gage installation and ensure dependable installations, particularly in difficult locations on components or in the field

Agile design – ease of manufacturing in different resistance values, overall sizes and measurement configurations



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