

## *Transducer-Class*<sup>®</sup> Strain Gages

Micro-Measurements has been a trusted name in the field of Strain Gage Technology for more than 45 years. We are proud of our worldwide reputation as a premier supplier of high-quality precision strain gages and strain gage accessories, and are fully committed to maintaining our position as the leader in this field. This databook of Micro-Measurements *Transducer-Class* strain gages and related products for OEM applications is intended to provide an overview of the sensors and installation accessories and tools needed for successful transducer strain gage applications.

### **TRANSDUCER-CLASS**<sup>®</sup>

*Transducer-Class*<sup>®</sup> strain gages are a select group of gage patterns designed specifically for transducer applications. The main objective is optimum gage performance at lower cost in high-volume production quantities. Exclusive features of *Transducer-Class*<sup>®</sup> gages include:

- Optimum backing thickness tolerance. This is particularly important to minimize creep variations between gage installations.
- Uniform backing trim dimensions. Matrix dimensions listed in this bulletin have a tolerance of  $\pm 0.005$  in ( $\pm 0.13$ mm) on any edge (measured from grid centerlines). On many transducer designs this will allow the gage matrix to be used for gage alignment. Gage placement for bonding can be fixtured more easily for reduced assembly time.
- Multiple creep compensation choices for most gage patterns. A close inspection of the gage pattern will reveal a small letter on the gage matrix next to the grid. This letter is the creep compensation code. Different creep compensations of the same pattern can be easily identified after removing gages from the package.
- Special pattern refinement for improved gage-to-gage reproducibility. Creep variation due to operating temperature changes is reduced.

### **INSTALLATION ACCESSORIES**

Construction of the strain gage is completed when it is bonded and wired — final manufacturing steps that our customers undertake. To help ensure successful transducers, Micro-Measurements *M-LINE* Accessories are extensively tested before being selected for strain gage use. Clear, concise instructions are provided to make these final manufacturing steps as risk-free as possible.



### **APPLICATIONS ASSISTANCE**

Our Transducer Applications Department is dedicated to providing accurate, friendly and confidential answers to your strain gage application questions. With a fully equipped laboratory and all of Micro-Measurements' combined engineering, manufacturing, and applications experience available to them, our Applications Engineers are "on-call" for you.

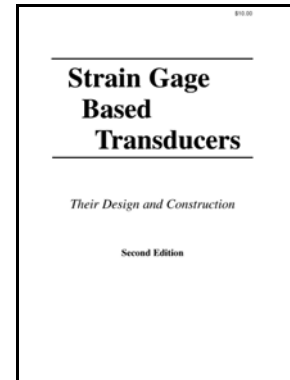
Individualized customer training is available in our Applications Laboratory or Technical Training Center near Raleigh, North Carolina USA.



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**REFERENCE LITERATURE**

Technical and product literature, along with special publications like our *Strain Gage Based Transducers* booklet, are available at no charge.



**CUSTOMER SERVICE**

We know that we must deliver in order for you to produce. Our Customer Service Department works daily with the individual requirements of our *Transducer-Class* customers to make sure that we supply the product you need — when you need it. Purchase conditions are tailored to your requirements, optimizing price/performance and minimizing inventory costs while ensuring the supply of reliable, high-quality strain gages and accessories.





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