

## GEMS Transmitters, Transducers, Deliver Top Performance and Value Under Pressure

- ▶ Excellent Repeatability, Reliability
- ▶ Pressure Ranges to 6000 psi
- ▶ Chemical Vapor Deposition /ASIC Technology

GEMS is proud to announce a range of pressure transducers and transmitters that fill the bill for economically priced OEM use or high-end general purpose industrial applications where only the highest repeatability and reliability will do.

### **psibar™** Transducers

The new Psibar Series transducers are priced to meet the exacting needs of OEMs for rugged, reliable, affordable pressure monitoring. All Psibar transmitters are subjected to rigorous hardness, leak, pressure, thermal cycling and ageing tests to guarantee long-term mechanical and electronic quality. The Psibar Series are also the ideal sensor for use with hydraulic equipment, where over pressure and pressure transients may harm mechanical operations.

### Series 2200 and Series 2600

GEMS 2200 Series and 2600 Series pressure transducers deliver GEMS predictable repeatability and reliability. With all stainless steel construction, these transducers are suitable for harsh industrial environments and provide enhanced monitoring over long-term operation. The Series 2200 and Series 2600 are designed for applications that benefit from high levels of repeatability and long-term stability including production machinery, pumps, compressors, heating, ventilating and air conditioning services.

### CVD/ASIC Technology

These pressure transducers use chemical vapor deposition (CVD) technology to manufacture inherently stable sensing elements. The sensing elements are laser welded to a stainless steel force summing diaphragm, which in turn, is vacuum brazed to a pressure port in order to guarantee mechanical integrity. This construction means no internal "O" rings or oil screens to ensure freedom from possible leak paths and media contamination. A state-of-the-art ASIC (Application Specific Integrated Circuit) chip in each transducer provides better linear thermal coefficients than traditional analog resistive compensation. ASIC technology allows electrical outputs and the pressure ranges to be programmed to almost any values, such as a .5 to 8.5 Vdc output for a 0 to 84 psi range.

### Sputtered Thin Film Technology

Construction techniques for our high-performance Sputtered Thin Film instruments creates a transducer which remains stable under the most extreme operating conditions. These sensors are capable of measurements to within  $\pm 0.08\%$ , require no maintenance, and have a typical MTBF rating of 25 years. For high performance requirements contact GEMS.



**psibar™**



Series 2200



Series 2600