



American Sensor Technologies, Inc.

Your sensor business partner...

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Low-Cost OEM Pressure Transducer Offers Superior Performance in Tight Spaces

Landing, NJ, March 16, 2005... American Sensor Technologies, Inc. ('AST') offers a low-cost, high-quality OEM pressure sensor built to address applications with tight space restrictions and requirements for high accuracy, trouble-free operation and long life. Measuring just 0.875" in diameter, the AST4100 Pressure Sensor offers superior performance within the tight confines of refrigeration systems, test stands and data loggers. The stainless steel construction of the header and housing makes it ideal for use in the corrosive environments of gas panels as well as within energy/water management applications (pump and tank monitoring). The pressure sensors also serve the automotive industry as integral components of test equipment and aftermarket pressure regulators.

Built for robust use, each AST4100 pressure sensor employs a thick one-piece diaphragm (free of internal O-rings, welds and fill fluids) that offers a strong hermetic seal against the media. Available in both 17-4PH and 316L stainless steel, units offer superior resistance to media corrosion as well as superb over range and burst protection. Manufactured with the OEM in mind, each unit holds an UL/cUL 508 approval. American Sensor Technologies also utilizes its own-patented [Krystal Bond™ Technology](#) that further enhances sensor performance with long-term stability, high output and no zero shifts.

The AST4100 sensors provide gauge and compound gauge pressure measurement in pressure ranges from 0 - 25 to 0 - 10,000 PSI. Units also are available in compound ranges as well as in bar and Kg/cm² outputs. The competitively priced AST4100 Pressure Sensors are available in outputs of 10mV/V, 0.5-4.5 V ratiometric, 1-5V, 1-6V, .25-5V, or 4-20mA. Units offer accuracy of $\pm 0.5\%$ BFSL at 25°C (77° F) and long-term stability of $\pm 0.25\%$ full scale output per annum.

AST4100 Pressure Sensors are available in a variety of pressure ports. Cable is available in varying lengths. Inline connector options are also available. For more information on the AST 4100 Pressure Sensors, visit our web site at www.astensors.com.

About AST

AST manufactures state-of-the-art, MEMS-based pressure sensors, transducers, and transmitters that offer the best price-performance ratio in the industry. Common applications of AST sensor products are in industrial OEM, hydraulic systems, fuel cells, medical gases, HVAC/R, refrigeration (ammonia, Freon, CO₂), oil & gas exploration and production, and off-road vehicles. By combining exotic metals and AST's exclusive, proprietary [Krystal Bond™ Technology](#) (an advanced process in which inorganic materials are molecularly diffused onto a metallic surface in the presence of certain gases), AST can produce high-performance strain gauge pressure sensors that support the specialized needs of key niche markets. Many AST products are UL listed as intrinsically safe and certified for explosion-proof required environments. Some of the world's most highly respected industrial Fortune 500 corporations have tested and now use AST products in a wide range of critical and harsh environments. For more information on AST products and technology, go to AST's website at www.astensors.com.

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