



American Sensor Technologies, Inc.

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New AST47HP Pressure Sensor Available in High Pressure Ratings Up to 60,000 PSIG (4,000 Bar)

Mount Olive, NJ, October 23, 2006... American Sensor Technologies (AST), a New Jersey-based manufacturer of *state of the art* MEMS-based pressure sensing products, introduces the new AST47HP Series of Pressure Sensors. This new line addresses the growing need for pressure sensors with higher pressure ratings. Available in pressure ratings up to 60,000 PSIG (4,000 Bar), the AST47HP Pressure Sensors are ideal for operation in diesel fuel rails, high-pressure wells, hydraulics, injection molding equipment, water jets, down hole instrumentation and more.

"With an increasing emphasis on vehicle efficiency, diesel fuel rail systems are being redesigned to run at higher pressures," states Karmjit Sidhu, AST's Vice President of Business Development. "AST is able to meet the new requirements of engine manufacturers by supplying AST47HP Pressure Sensors with pressure ratings up to 60,000 PSIG." The AST47HP is also popular among water jetting applications used in food processing, concrete and tile cutting, and metal fabrication.

AST47HP sensors incorporate a one-piece stainless steel sensing element which is free of silicone oil, welds or O-rings. The absence of these characteristics eliminates the chance of contamination from outside media, critical in food processing applications. With AST's Krystal Bond Technology, the sensing element offers a thick diaphragm that eliminates long-term drift, which can be common in high pressure and high cycle applications. A stainless steel housing is welded to the sensing element for optimum protection of the sensor's electronics. Units are rated for over 100 million pressure cycles and have 100V/m of EMI/RFI to protect against electrical noise.

To address different pressure requirements, the AST47HP Pressure Sensors are offered in a variety of high-pressure fittings including:

- ¼" BSP Male [10,000 – 15,000 PSI]
- ¼" NPT Female [10,000 – 15,000 PSI]
- 9/16–18 UNF Male with 37° Flare [10,000 – 20,000 PSI]

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- F250C Female Autoclave [10,000 – 45,000 PSI]
- M16*1.5 Female with Sealing Cone [10,000 – 60,000 PSI]

Operating over a wide temperature range of - 40 to 85°C (-40 to 185°F), the AST47HP Pressure Sensors offer a standard accuracy of $< \pm 0.25\%$ BFS. AST47HP Pressure Sensors are available with outputs of 10mV/V (50mV), 0-5V (3 or 4 wire), 0-10V (3 or 4 wire), 1-5V, 1-6V, 1-10V or 4-20mA (loop) to address different application requirements.

A wide variety of electrical connections are also available with cable, Hirshmann connectors, and military connectors.

For more information about the AST47HP Series of Pressure Sensors, visit the AST web site at http://www.astensors.com/files/pdf/HighPressure_Final_small.pdf or contact AST at info@astensors.com

About AST

AST manufactures *state of the art* MEMS-based pressure sensing products that offer the best price-performance ratio in the industry. Common applications of AST sensor products are 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 has developed its [Krystal Bond™ Technology](#), an advanced process in which inorganic materials are molecularly diffused onto a metallic surface in the presence of certain gases. This formulates into a high-performance strain gauge pressure sensor that supports 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 broad range of critical and harsh environments. For more information on AST products and technology, please visit AST's website at www.astensors.com.