



FOR IMMEDIATE RELEASE

Media Contact: Jean Carl/610-565-2288 / fjcarl@comcast.net
AST Contact: Karmjit S. Sidhu/973-448-1901/kssidhu@astsensors.com

AST Announces ANSI/ISA 12.27.01-2003 Single Seal Compliance for Explosion-Proof Series

Mt. Olive, NJ - October 23, 2007. American Sensor Technologies, Inc announces its compliance to ANSI/ISA 12.27.01-2003 for their AST4600 Explosionproof Pressure Transmitter.

ANSI/ISA - 12.27.01-2003 "provides specific requirements for process sealing between electrical systems and flammable or combustible process fluids where a failure could allow the migration of process fluids directly into the electrical system. Examples of this type of seal include diaphragm seals, thermowells, and pump seals." *

The AST4600 will withstand the following burst pressure test; please refer to chart.

MAXIMUM WORKING PRESSURE	BURST TEST PRESSURE
$P_{max} \leq 14 \text{ MPa}$	3x Pmax
$14 \text{ Mpa} < P_{max} \leq 70 \text{ MPa}$	2.5x Pmax + 7 MPa
$70 \text{ MPa} < P_{max}$	2x Pmax + 42 MPa

Tested by the Canadian Standards Association (CSA), all AST4600 sensors will now be engraved with the Single Seal marking to indicate compliance. The housing will include the ambient (-40° to 85°C) and process (-40° to 125°C) temperature range information, along with the CSA 30 Class 1 Division 1 Explosionproof [Groups A, B, C, D] approval marking. A single seal pressure sensor has a significant cost savings and is much more compact than dual seal devices. AST4600's offer the added benefit of Krystal Bond™ Technology, allowing pressure measurement through a solid piece of stainless steel [no welds, oil-filled cavities, or internal O-rings].

The approval most notably effects equipment subjected to inspection by mechanical, electrical, and instrumentation inspectors in Canada. Effective October 1, 2007, sensors on new or repaired equipment must be marked as a "Single Seal" or "Dual Seal" device in order to continue operation.

About AST

AST manufacture state-of-the-art, MEMS-based pressure sensors, transducers and transmitters that offer the best price-performance ratio in the industry. Through the acquisition of noted LVDT manufacturer Macro Sensors (<http://www.macrosensors.com/>), AST also offers a full line of linear/rotary position sensors, as well as related instrumentation. 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) in the manufacture of its pressure sensors, AST can produce high-performance pressure units 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. For more information on AST products and technology, please go to AST's website at www.astensors.com.

* www.isa.org