



Pressure Sensors Constructed with Hastelloy Materials Meet Industry Regulations for Process Chemical Apps

Applications for AST's Hastelloy pressure transducers include chemical tank level monitoring, oil and gas processing equipment and more.

MT. OLIVE, NJ, USA, November 7, 2013 /EINPresswire.com/ -- The increase use and development of specialty liquids and gases mandates that pressure sensors be constructed of specific materials that can withstand these elements and in accordance with industry regulations to ensure the safety of individuals.

When used in hazardous and non-hazardous locations to monitor the level and/or pressure of such chemicals, American Sensor Technologies (AST) constructs its pressure sensors from Hastelloy C276 (N10276) material in accordance with industry regulations. In the oil production and process industries, NACE MR0175/ISO 15156 and NACE MR0103 regulations allow for the use of Hastelloy C276 with liquids and gases that come in contact with materials that can cause sulfide stress cracking (SSC) or stress cracking corrosion (SCC). In addition, Canadian regulations for piping and fittings in upstream and midstream piping require provincial registration (Canadian Registration Number - CRN) of sensor fittings and materials under ASME B31.3.

With the presence of hydrogen sulfide and chlorides in many chemical processes, nickel alloys offer higher survivability than standard stainless steels. AST uses of the thickest Hastelloy diaphragm and a low operating strain to create a sensor that offers long term pressure measurement. With the diaphragm being the thinnest and most critical piece of a pressure transducer, a thick diaphragm ensures it will withstand a long-term installation.

Utilizing its exclusive Krystal Bond Technology, AST designs its pressure sensors as a monolithic piece of material with no welds, O-rings, or fluid fills. Bulk silicon strain gages are mounted directly to the top of the metal diaphragm using a special glass firing process. With high raw output signal, inorganic materials, and a thick diaphragm membrane, users benefit from complete isolation of the pressure to the fitting and long-term stability.

Applications for AST's Hastelloy pressure transducers include chemical tank level monitoring, oil and gas processing equipment and more. AST offers this material on its hazardous and non-hazardous area pressure transducers as well as its gauge pressure transducer or differential pressure transducer. Hastelloy pressure sensors are offered in a full range of capability from 2.5 PSI up to 10,000 PSI. AST adds standard price of \$100 per transmitter, with quantity discounts available.

Contact AST at info@astsensors.com to configure your pressure transmitter with this material for your process chemical application. Within the AST model matrix, AST utilizes the number "4" to designate Hastelloy material when ordering. As a resource for chemical compatibility, Cole Parmer offers information on Hastelloy C276.

Visit AST's web site at <http://www.astsensors.com/pressure-sensor-products.php> to explore our pressure sensors in more detail.

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