

FOR IMMEDIATE RELEASE

New Polysulphone Single Use Pressure Sensors to Compliment the Increased Use of Disposable Process Systems

Princeton, NJ (October 29, 2007) - There is an increasing trend in the biopharmaceutical manufacturing industry toward the use of disposables (e.g., flexible tubing and disposable bioprocess containers) in both clinical and commercial production to about the 1,000-L process scale. Pressure is a critical process parameter to measure in many filtration and chromatography processes and single use pressure sensors that are compatible with bioprocess assemblies comprised of bags, filters, tubing, and connectors add a great deal of value. PendoTECH has added to its line of Single Use Pressure Sensors (patent pending) a version made of caustic resistant polysulphone. Previously they were only available in polycarbonate which is an excellent material for many applications but may be weakened when exposed to sodium hydroxide used in the sanitization step in some filtration processes. The polysulphone sensors have been qualified for exposure to 1N NaOH for over 3 hours at 50°C.

In addition to eliminating the possibility of difficult or non-optimal connection of traditional pressure gauges, single use sensors at process scale eliminate the requirements of parts cleaning, tracking, sanitization, and possible re-sterilization of reusable pressure measurement devices.

The pressure sensors feature an unobstructed flow path without dead-legs that minimizes pressure drops associated with some pressure measurement devices. They are available for tubing from inner diameter size 3/8 inch to 1 inch so they can handle flow rates up to 50 L/min.

They are manufactured in an FDA Registered, ISO 13485 certified facility and each sensor is tested in manufacturing to ensure it is with calibration and also is electrically tested and tested for leaks. The sensors arrive to the customer ready to use and with a certificate of quality. They have been qualified for compatibility with gamma sterilization up to 50 KGys.

The sensors connect via a 12 foot re-usable cable to a PressureMAT™ or a PendoTECH Process Control System offered by PendoTECH. The PressureMAT can input up to four sensors for pressure reading display and has analog outputs to a control system and RS232 output to a PC and also alarm outputs. PendoTECH Process Control Systems for pressure measurement and control can be custom configured based on process requirements. The sensors can also be integrated into other pre-qualified 3rd party monitors

Applications include filtration, bioreactor pressure monitoring, and chromatography.

PendoTECH is committed to providing value-added products and services to companies in the biopharmaceutical industry for enhanced development and production of mainly cell culture derived products. As the number of biologicals produced by cell culture increases and the industry matures, new technologies and process approaches are available for comparison to the existing ones for evaluation of enhanced production output and reduced cost of goods. Visit: www.pendotech.com for more information.

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