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Axiom Analytical, Inc. Announces a Fiber-Optic Transmission Probe Design which Eliminates Fouling – Even in the Most Troublesome Process Streams

TUSTIN, Calif., November 10, 2008 – Axiom Analytical, Inc. has announced its FPT-855 Near-IR Transmission Probe. The new probe features an integral heating jacket which virtually eliminates the occurrence of fouling due to the condensation of product on the probe surfaces. It also shares the robust qualities of the Company's FPT-850 extreme duty probe.

FPT-850 near-infrared, visible, and UV transmission probes were developed to provide maximum long term reliability under the extreme conditions of high temperature, thermal shock, and aggressive chemistries encountered in many on-line process applications. The probe design has two key elements. The first is a proprietary sealing technique involving a direct sapphire to metal welded pressure seal (U.S. Patent 6,587,195 B1). This approach provides significant advantages over other sealing techniques. A high degree of chemical resistance is assured by the fact that the only materials in contact with the process are sapphire, high nickel alloys, and a thin flash of either gold or PTFE (application dependant). The compliance required to withstand extreme temperature cycling is provided by the high nickel alloy seal which is compressed at high pressure prior to welding. This approach eliminates fatigue and stress failures common with brazed seals as well as the limited lifetime characteristic of elastomeric seals.

The second key element of the FPT-850 and 855 design is the elimination of optical fibers within the probe (U.S. Patent 5,418,615). This insures excellent optical stability and long term reliability. The elimination of both internal optical fibers and elastomeric seals provides for reliable long term operation at temperatures as high as to 400ºC.

About Axiom Analytical, Inc

Axiom Analytical, Inc. was founded in 1988 by Dr. Mike Doyle and Norm Jennings, pioneers in the field of process FTIR spectroscopy. The Company's mission is to develop and market the robust sampling equipment, software, and integrated systems required to fully realize the potential of molecular spectroscopy for solving economically significant problems both in laboratory analysis and manufacturing processes. The Company's products are employed in diverse industries ranging from basic chemicals to pharmaceuticals, semiconductors, and polymer processing.

More information about Axiom Analytical Inc. can be found at http://www.goaxiom.com/.