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For immediate release
January 12, 2006
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Proton Energy Systems' HOGEN® hydrogen generators exceed 3 million hours' run time for analytical applications

Reliable on-site systems provide dependable H2 supply for environmental and petroleum analysis; chemical processing

Wallingford, Conn., January 12, 2006 — Since their introduction in 2000, Proton Energy Systems' family of HOGEN® laboratory hydrogen generators have accumulated more than three million hours of use for separation and materials analysis, production and safety control in industries and applications as diverse as environmental compliance testing, pharmaceutical hydrogenation, petrochemical quality assurance and combustible gas detection.

More than 400 HOGEN® GC lab hydrogen generators currently supply hundreds of research and production facilities worldwide with dry, pure hydrogen as a carrier and fuel gas, offering faster, more stable results, reliable, maintenance free operation and a rapid payback on investment.

As separation analysis, petrochemical and pharmaceutical production methods have evolved to include fast GC, two-dimensional GC, and a variety of hydrogen supplied detectors, so has the need for a hydrogen generator that delivers on these applications' throughput requirements. Proton's line of HOGEN hydrogen generators, which include the ultra-compact bench top HOGEN GC (300 and 600cc) and washing-machine-sized HOGEN S20 and S40 (20 SCF and 40 SCF/hour) models, offer the capacity, high purity (99.9999%+) and pressure (up to 200 psig) required by both small research labs and large facilities with hundreds of continually-operating gas chromatographs.

Symyx Technologies employs a HOGEN 20 hydrogen generator in its labs' high-throughput experimentation for development of new materials such as polyolefins, commodity chemicals, fuel cells, specialty polymers, battery materials and phosphors. "Symyx purchased Proton Energy's HOGEN 20 hydrogen generator because we have new testing needs, require a high level of purity and don't want to rely on hydrogen deliveries," said Doug VanLare, director of safety and facilities. The HOGEN 20 hydrogen generator gives us an ample supply of 99.9999% pure hydrogen carrier gas for our gas chromatography analysis. The generator also supplies hydrogen at a high even quality to be used as a feed for several research processes. It provides us with the quality and quantity of hydrogen we need 24/7 without the expense and effort to manage bottles."

The Texas Commission on Environmental Quality (TCEQ) depends on eight HOGEN GC 600 hydrogen generators within its lab and mobile monitoring section, which uses small vans and a 48-foot mobile laboratory to analyze environmental samples across the state. "It's critical that we operate our instruments to same quality standards that a fixed site laboratory would," said TCEQ Mobile Monitoring Chemist/Work Leader Chris Jones. "Our HOGEN GC systems operate flawlessly and deliver the hydrogen purity we need to meet sub-parts per billion detection limits. Their rugged design holds up to the bouncing imposed by our mobile labs' constant travel."

Proton's HOGEN hydrogen generators feature internal self-diagnostic features, high visibility lighted displays, internal/external leak detection and remote alarm capabilities to increase lab safety and productivity. The units' palladium purification systems eliminate the need for desiccant drying cartridges.

A standard auto-fill feature offers set-it-and-leave it convenience. HOGEN GC systems carry a two year standard warranty.

HOGEN hydrogen generators are manufactured under ISO 9001:2000 compliant quality systems, bears CE, Ex, and TUV US and Canada marks (equivalent to UL and CSA), and is available with both US and international electrical cordsets. The Ex mark indicates that Proton's generator is compliant with the rigorous requirements of the European ATEX hazardous area explosion protection legislation. Proton Energy Systems will provide additional information on ATEX classification upon request.

To learn how HOGEN hydrogen generators can help streamline your facilities' analyses, visit www.protonenergy.com, call Proton Energy Systems at 203.949.8697, Email hogengc@protonenergy.com or log onto www.hogengc.com.

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