New ProAm Ammonia Monitor proves invaluable

Chris James of Terra-Nitrogen (U.K.) Ltd reports that the new ProAm ammonia analyser from Pollution & Process Monitoring (PPM) is succeeding where others analysers have failed!

Terra-Nitrogen located in Avonmouth, purchased several effluent monitors from PPM during 2003 and these have given reliable performance on applications known to be problematic.

One of the ProAm instruments is measuring effluent 0-8,000 PPM as N. The analyser is used to identify a process failure which could result in an uncontrolled release from the ammonium-nitrate process. The instrument can detect these events in real-time and before the batch discharge of process effluent is authorised, preventing accidental release.

The second ProAm is ranged 0-100 PPM as N. It is installed within an engineered GRP kiosk measuring process effluent from an Ammonia production process using MDEA (methyl di-ethylene-amine). Additionally, instrumentation to measure the TOC, pH and Temperature were also installed by PPM to detect and isolate process failure.

The ProAm compliments PPM's existing range of process analysers which have been specially designed for waste-water applications. The methodology is based on a proven ion selective technique but also incorporates many subtle design changes. The analyser is therefore capable of reliable operation measuring the most difficult of samples containing significant suspended solids or precipitating chemicals.

To support the installation, considerable effort has also been placed on designing the complete monitoring solution with particular emphasis on various sample acqusition and preparation systems (where necessary) to suit individual application difficulties.