



## Sampling systems

Vital to the successful installation of a process analyzer is a correctly designed sample transport and conditioning system. The investment in the analyzer technology will be wasted if inadequate attention is paid to the handling of the sample.

Our extensive experience in the design of sampling systems for all type of analysers in many type of processes enable us to offer a complete solution package that will ensure all the benefits of the analysis are realized and reliably provided.

Such is the diversity of the requirements of individual analyzer and the specific needs of an individual process and client that “standard” systems can only offer a compromised performance. As a result, each Hobre Instruments system is specifically designed to meet these demands.

Some application examples are given below;

### Refinery Product Blending

Here the emphasis is on high availability and validation of results. With multiple analyses performed on single process streams the system must ensure representative samples are presented to all analysers and that automatic validation can be performed during the blending process, to minimize the production of off-spec product. A wide variation in product specifications is found, depending upon regional conditions, requiring expertise in the evaluation of specification an a real-world experience to predict likely actual conditions.

### Chemical processes

The analysis of elemental catalysts in the production of Terephthalic Acid is valuable addition to process control. Whilst the analysis itself presents few problems to XRF analysers the sample handling is crucial to the availability of the data. With a sample that can be highly corrosive and with a tendency to precipitate the demands on the sampling system are high. Our system design for the application ensures high availability through mechanical design and with regular automated cleaning processes.

