

# FOX-IQ PROCESS FLUID ANALYZER

*The robust process analyzer for reliable analysis of chemical elements in liquids*

## AUTOMATED PROCESS FLUID ANALYSIS

The FOX-IQ Liquid analyzer provides a reliable and cost effective monitoring tool that is specially designed to accurately monitor chemical composition of process streams. By reliably monitoring process streams it provides a vital tool to improve product quality and consistency, optimize production yields, reduce raw materials, eliminates rejects and reduces time consuming and costly lab analysis. The FOX-IQ will reliably monitor up to 25 elements simultaneously, from P to U - from ppm to high % levels in most process fluids. No chemicals or auxiliary gases are required, assuring low operational costs.



## FOX-IQ SYSTEM

The FOX-IQ is a rugged process analyzer designed and engineered for 24/7 operation in the harsh industrial environment of a chemical or other manufacturing plant – it can endure high levels of vibration, electromagnetic and acoustical noise. These Process Analyzers are designed for un-attended operation for long periods of time. Special attention is paid in the design of the flow cell to make FOX-IQ safe for both operators and equipment. In the unlikely event of a window leakage, a second safety window prohibits liquid from entering the analyzer and prevents any damage to the FOX-IQ. A leak detection system will instantaneously detect even the most miniscule leak; bypass the process stream, empty the flow cell and shut down the analyzer. The system will simultaneously generate an alarm. Alarm inputs allow complete shutdown of the FOX-IQ in case of other emergencies. Innov-X Systems offers complete turn-key systems including sample conditioning systems, automatic stream switching devices for multi stream analysis, analyzer, calibration verification and flush system and sample recovery systems.



## FOX-IQ PERFORMANCE

The FOX-IQ Liquid XRF system performs fully automated on-line analysis for process monitoring and control. X-ray Fluorescence (XRF) is a proven analytical technique commonly used to quickly and non-destructively perform multi element analysis on solids, liquids and slurries. The non-destructive nature of XRF analysis means the process fluid can be returned to the process after analysis.

## FOX-IQ ADVANTAGES

- › Robust industry hardened design requires minimal maintenance
- › Safety window and automated leak detection system prevents damage to the analyzer in case of window breakage
- › Internal standardization for automatic analyzer QC and performance verification
- › Easy, simple and fast calibration or Fundamental Parameters calculation for applications where no calibration standards are available
- › Minimal downtime - pre-calibrated Probe Head Assemblies can be exchanged in minutes
- › Remote diagnostics
- › Low power requirements: needs only 110/220V
- › Low power tube - no complicated safety requirements needed for safe use

## FOX-IQ TYPICAL APPLICATIONS

- › A variety of refining operations, ( S, V, Ni, Fe, Cl, Pb in fuels)
- › Blending operations (Ca, Zn, P, S, Cl and Ba)
- › Plating bath composition monitoring (Co, Ni, Zn, Cr, P etc.)
- › Fluid catalyst monitoring and recovery (Co, Mn, Br, Fe, Pt, Rh, Pd etc.)
- › Water treatment monitoring
- › Ca and Ti additive monitoring in Pulp and Paper industry
- › Monitoring of wood preservatives like As, Cu and Cr
- › Chemical ( Br, Sn, Sb , P, Cl and other fire retardants)