



Analytical Gas Analytical Liquid Combustion Integration Gas Chromatography

PROCESS ANALYTICS

Engineering Physical Property Spectroscopy Sulfur Recovery Water Chemistry

TechStar is your trusted analyzer partner from sample tap to vent. Our dedicated experts support you through every step of a successful analyzer measurement. From application evaluation and engineering to seamless project execution, we back our solutions with comprehensive service, training, and support. Count on TechStar, your ultimate resource for analytical excellence.

PARTNERS IN ANALYTICAL DEVICES:



YOUR COMPLETE RESOURCE FOR INTEGRATION & ENGINEERING

APPLICATION EVALUATION & ENGINEERING

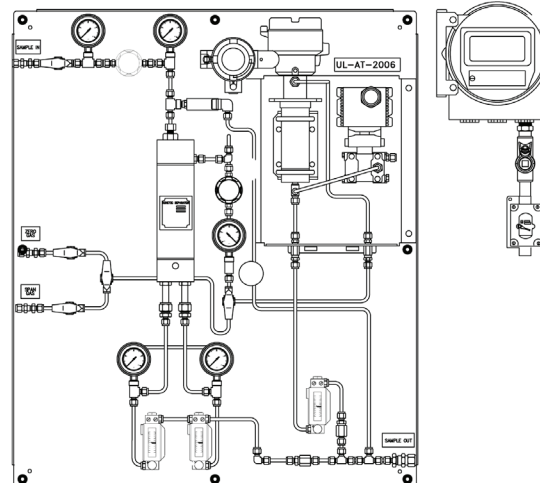
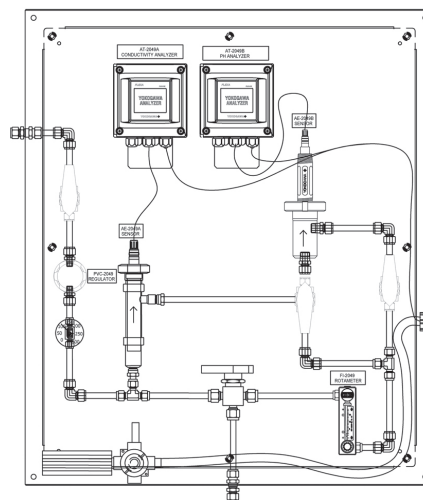
- Technology Review & Recommendations
- Custom Integration
- System Design & Drawing Packages
- Calculations
 - Vapor-Pressure Curve Analysis
 - Dew Point Analysis
 - Heat Trace Sizing
 - Lag Time Calculations
 - Power Calculations
 - Wake Frequency Calculations

PROJECT MANAGEMENT & EXECUTION

- Documentation Management (VDRL)
- Internal Testing
 - Wire Continuity Tests
 - Piping & Tubing Leak Checks
 - Utility Panel & Rack Functional Tests
 - Review Of Factory Analyzer Testing Data
 - Analyzer Calibration/Stability Checks
 - Factory Acceptance Testing
 - Procurement

SUPPORT ACTIVITIES

- Preventative Maintenance Plans
- Service Contracts
- Consumables & Calibration Logistics



ANALYTICAL GAS

- Advanced Reflux Samplers
- CEMS
- CO2
- Distillation
- Gas Chromatographs
- Gas Density
- H2S
- Hydrogen
- Infrared Spectrometers
- Moisture
- Net Heating Value (BTU)
- NIR Spectrometers
- Oxygen
- Total Nitrogen
- Total Sulfur



ANALYTICAL LIQUID

- Boiler Cycle Chemistry
- Brix And Refractive Index
- Chlorine
- Conductivity
- Dissolved Oxygen
- H2S in Liquids
- Oil In Water
- pH & ORP
- RVP/Vapor Pressure
- Silica
- Sodium
- Total Organic Carbon (TOC)
- Total Nitrogen
- Total Sulfur
- Turbidity
- Viscosity
- Waste And Drinking Water
- Water Cut/BS&W Water In Oil



COMBUSTION

- Asset Integrity
- Combustion Safety
- Environmental Emission Reductions
- Fuel Feed Forward Control
- O2 & CO Trim Control
- Throughput Optimization



PHYSICAL PROPERTY

- API Gravity
- ASTM Standards
- Boiling Point
- Cetane
- Cloud Point
- Color
- Distillation
- Ethanol Blending
- Freeze Point
- Gasoline Blending
- Interface Detection
- Octane
- Pour Point
- RVP/Vapor Pressure
- Terminal Optimization



SPECTROSCOPY

- FTIR
- Mass
- NIR
- Raman
- TDLS
- UV



SULPHUR RECOVERY

- Air Demand
- Claus SRU
- Feed Forward Optimization
- SO2 Cems Monitoring
- Sulfur Pit Safety
- Tail Gas
- Treating Unit Optimization

