

## WHO WE ARE

Our experience in diverse industries and collaboration with numerous manufacturers allow for application of **best fit solutions**. This expertise drives our design and engineering to achieve the safest, highest performing, lowest cost of ownership, and most robust analytical system solutions.

## WHAT WE DO

Applied Controls is focused on the total Analyzer System from the sample point to sample return. We can design, engineer, build, start-up, train and service on-line continuous analyzer systems-from wall mounted units to complete shelter houses.

## WHAT WE OFFER

- Environmental/Process Analyzer System Integration
- Analyzer System Engineering
- Sample Conditioning Systems
- Enclosure/Shelters
- F.A.T. Live Streaming
- Start-up/Commissioning/Training
- Field Service and Calibration
- Complete Turnkey Systems

## VALUE-ADDED

- Technical Support
- Installation and Setup
- Maintenance
- Warranty

For more information on any of our products or services please visit at:  
[Analyzer-Systems.com](http://Analyzer-Systems.com)



# Hydrocarbon Processing Industry

## Moisture in Liquid Hydrocarbons



## Dryer Efficiency Solutions



Multiple types of Hydrocarbon dryer systems are available in the industry; Molecular Sieve, Activated Alumina, Silica Gel Desiccants, and others. Many times two or three dryer vessels are operated in parallel, using a piping system that allows a bed to be removed from the process for regeneration. As a bed becomes **saturated**, it is put into the regeneration circuit where hot, dry gas drives the absorbed moisture out. The freshly regenerated bed is then ready for service.

The **inlet gas moisture** concentration is usually measured as the concentration is not constant. Being inconsistent, operations cannot properly predict the operational period between regenerations. Due to aging, overheating, or contamination in the circuit, the desiccant can lose capacity. The effectiveness of the drying process can then be confirmed by the **outlet moisture measurement** of the dryer.

## PROCESS AND APPLICATIONS

- Moisture in Hydrocarbons are a crucial measurement for many Dryer and Blending application/processes. This can include anything from Butane, Propane, Diesel, and additional product streams. The measurement is not only a vital process control measurement, but is required for custody transfer applications.
- Our designs ensure that the Hydrocarbon Dew Point for all/any streams are considered and facilitated to guarantee a quality, repeatable, representative analysis no matter what analytical device is utilized.



## ADVANTAGES

- Applied Controls has over 75 years of combined experience in Sample Systems for all types of analytical measurements; including Gas Chromatography, moisture, etc.
- We can utilize any manufacturer's equipment that proves to be the best fit technology for the application needs.
- Our Engineering Staff are Sample System experts. We design your analytical systems from Sample Point to Return, covering everything in between.
- Our dedicated Service Engineers ensure our customers receive second to none support for all commissioning and on-demand service needs.

 **Applied Controls**  
Analytical System Solutions

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