

YOKOGAWA

Yokogawa Fluence Analytics



realtime data.
realtime optimization.

Company Values



Innovation

We are pushing the boundaries of what's possible, one dataset at a time.



Quality

From our highly skilled and professional team to the technologies and analyses we produce, we strive for excellence in all that we do.



Accuracy & Reliability

Precision is of utmost importance to our processes and systems, as such, we always endeavor to deliver outputs that are accurate and dependable.



Insight

Because of our dogged determination to perform thorough analysis of research and production processes, we deliver the insights and takeaways that transform companies.



Integrity

Our people, our products, and our analyses are all reinforced by a commitment to honesty, empiricism, and science.

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The mission of Yokogawa Fluence Analytics is to optimize efficiency and quality in the production of polymeric materials and biopharmaceuticals by deploying innovative products leveraging continuous, realtime data streams.

Who We Are

Yokogawa Fluence Analytics, which was named as a Top 50 global advanced manufacturing startup by CB Insights, provides patented process analytics and control solutions to polymer and biopharmaceutical customers worldwide. Yokogawa Electric Corporation acquired Fluence Analytics in January 2023.

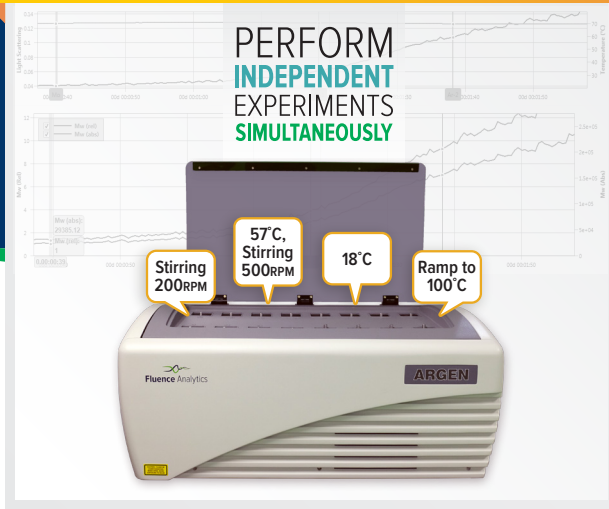
Yokogawa Fluence Analytics is a global leader in real-time polymer reaction monitoring and control, and its industry-leading ACOMP product is the only commercially available smart manufacturing system that continuously monitors and measures polymerization reactions.

The company's biopharmaceutical product line includes a high-throughput static light scattering instrument called ARGENT. ARGENT can independently measure the stability of biopolymers under thermal, chemical, and mechanical (physical) stress, while also performing shelf-life stability studies at low temperatures.



ARGEN

Aggregation Rate Generator



ARGEN is a benchtop static light scattering platform that addresses key challenges in biopharma R&D by providing teams with the ability to monitor biopolymer stability in-situ and in real-time, model stress conditions encountered during production, determine shelf-life stability at low temperatures, and rapidly analyze the stability of multiple sample cells in parallel.

BENEFITS

- Smarter Product Development
- Early Detection of Aggregation
- Rank Protein and Peptide Stability
- Understand Impact of Chemical, Mechanical Stress, and Thermal Stress

Industries Served

Chemical

- Synthetic Polymer Manufacturing and R&D
- Natural Polymer Manufacturing and R&D

Pharmaceutical

- Biosimilar R&D
- Biopharmaceutical R&D
- Formulation Development

ACOMP

Automatic Continuous Online Monitoring of Polymerization



ACOMP is a smart manufacturing system that continuously analyzes polymers during production. This automated monitoring solution produces realtime data about reaction kinetics and polymer properties such as residual monomer, monomer conversion, polymer composition, molecular weight and intrinsic viscosity.

BENEFITS

- Increased Polymer Yield, Quality, and Consistency
- Optimized Process Control
- Reduced Cycle Times, VOCs, and Material Usage
- Anomaly Detection During Production

Lab ACOMP

ACOMP for Lab and Pilot Plant Scale Reactions



Lab ACOMP is an essential R&D product used to monitor the synthesis of new polymer products or optimize existing processes at the bench and pilot plant scale. Lab ACOMP continuously analyzes polymer during reactions, yielding realtime data about polymer properties, reaction kinetics and process anomalies.

BENEFITS

- Accelerated Product Development
- Faster Recipe Optimization
- Better Product Quality
- Improved Scale-up

How ACOMP Works

Step 1 -

A stream of polymer is extracted from the reactor, and ACOMP continuously quenches, dilutes and conditions the polymer stream for characterization.

