



Discover Precision:
Advanced Scientific Mass Flow Solutions

BIO PHARMA
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In the biopharmaceutical industry, precision is not just a requirement—it's a foundation. **Sierra's advanced mass flow solutions** are engineered to meet the unique demands of biopharma processes, delivering unmatched accuracy, reliability, and scalability.

Why use Sierra Mass Flow Meters? Accuracy, Easy Integration, and Scalability in the following Applications that Drive Biopharma Success

Fermentation

Optimize gas sparging with precise flow control for enhanced cell culture growth and uniform oxygen transfer.

Chromatography

Maintain peak performance with accurate gas flow to drive separation processes. Precise control ensures higher yields and reduced waste.

Bioreactors

Deliver consistent and controlled gas flows for optimal yield and process efficiency, enabling superior cell viability and productivity.

Lyophilization (Freeze Drying)

Achieve stable vacuum and gas flows to ensure product integrity and shelf life.

Sterile Environments

Our mass flow solutions support contamination-free operations, critical for aseptic processing and cleanroom environments.



**EMPOWERING BIOPHARMA THROUGH
PRECISION AND INNOVATION**

Featured Products for

BIOPHARMA industry



SmartTrak® 100

Industry-leading digital mass flow controller with high-speed communication capabilities for real-time data monitoring and process control.



RedySmart®

Compact and cost-effective solutions ideal for lab-scale and small-scale biopharma processes.



Flow Research Tools

Advanced software capabilities for data logging, analysis, and calibration, designed to meet the needs of biopharmaceutical research and development.



THE SIERRA ADVANTAGE

Join leading biopharma companies worldwide that trust Sierra for their critical processes. With innovative technology and dedicated support, we're here to ensure your success at every step. **Whether it's optimizing fermentation or maintaining regulatory compliance, Sierra empowers your operations with cutting-edge solutions tailored for the biopharmaceutical industry.**



**SmartTrak® 100
Pharmaceutical MFM Air
Measurement**

**SmartTrak® 100
Pharmaceutical
Research**



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