CODA Flow Generation System

FULLY INTEGRATED LIQUID FLOW CONTROL SYSTEM FOR CONTINUOUS AND BATCH PROCESSES

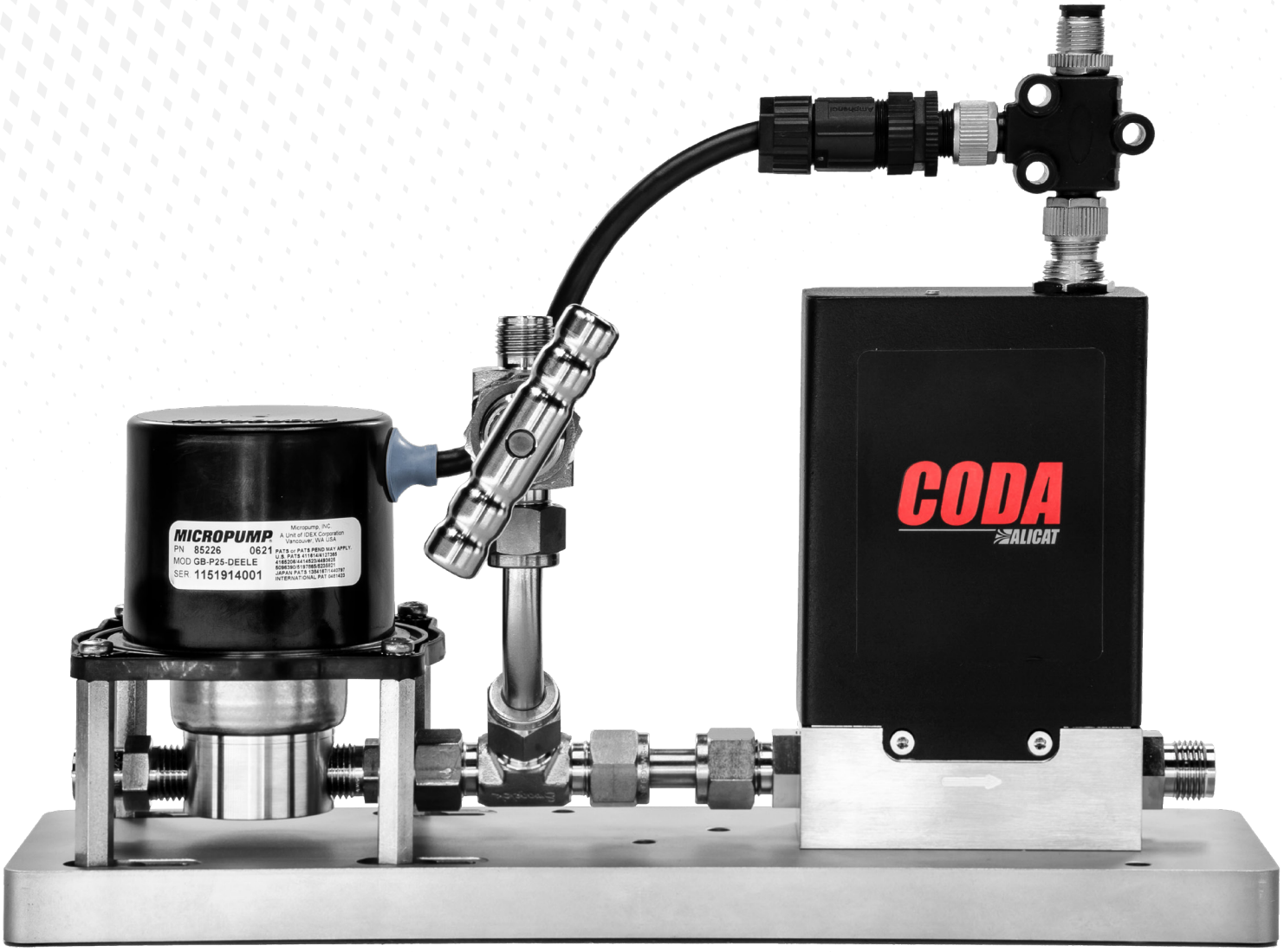
ALICAT SCIENTIFIC

No system pressure required

Continuous or batch processes

Aggressive liquid compatibility

Flow from 100 g/h to 100 kg/h



Process dosing, simplified

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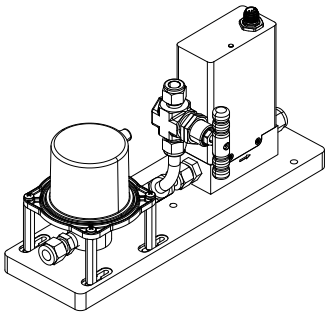

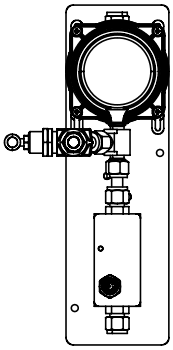

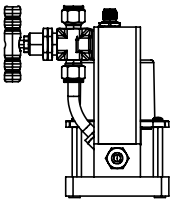

CODA Flow Generation System **Quick Specifications:**

Compatible with aggressive liquids

Unknown composition OK

Flows from 100 g/h to 100 kg/h

Viscosities up to 200 cP

Customizable process connections

Required power: 24–30 Vdc, 5A

10-pin M12 connector for communication and power

Simplified process and communication setup

The CODA flow generation system utilizes a gear pump to create and control flow in an otherwise unpressurized system. This fully integrated system negates the hassle of sourcing a pump and meter and developing a control system. Simply plug it in and give a setpoint or batch size and the CODA meter configured with PID control will send an analog signal that controls the pump speed and regulates flow.

Already have a pump? Integrate a standalone CODA meter with PID control into your existing setup.

Applications

Consumer products manufacturing

Accurate and repeatable fragrance and dye addition

Add highly concentrated fragrances and dyes to products like laundry detergents and fabric softeners. Full production runs of these products require very small quantities of these additives. Maintain consistent quality with accurate, continuous dosing from a CODA flow generation system.

Food processing

Adding flavors and nutrients in a continuous production process

Draw liquid solutions containing nutritious vitamins and minerals from a holding vessel using the CODA flow generation system. Measure specific amounts to spray on foods, like cereal, before packaging.

Chemical vapor deposition

Repeatable addition of aggressive precursor liquids before vaporization

Repeatably deliver aggressive liquids to a vaporization system prior to entering a vacuum chamber for CVD processes.

Water treatment

Addition of chemical additives for pH control

Maintaining proper pH is imperative in water treatment facilities. Use a CODA flow generation system to add specific amounts of chemicals to the treatment system to increase or decrease pH as the chemical properties change.

Chemical/petrochemical

Production of compounds from many ingredients

Flow specific amounts of liquid chemical additives when creating chemical mixtures. Wide materials compatibility with aggressive chemicals minimizes the number of instruments required to perform a blending process.

Lithium battery production

Control of water-based solutions into manufacturing process

The production process for lithium batteries requires precise control of water-based solutions, typically containing ammonia. The CODA flow generation system provides the necessary control and materials compatibility for these processes.