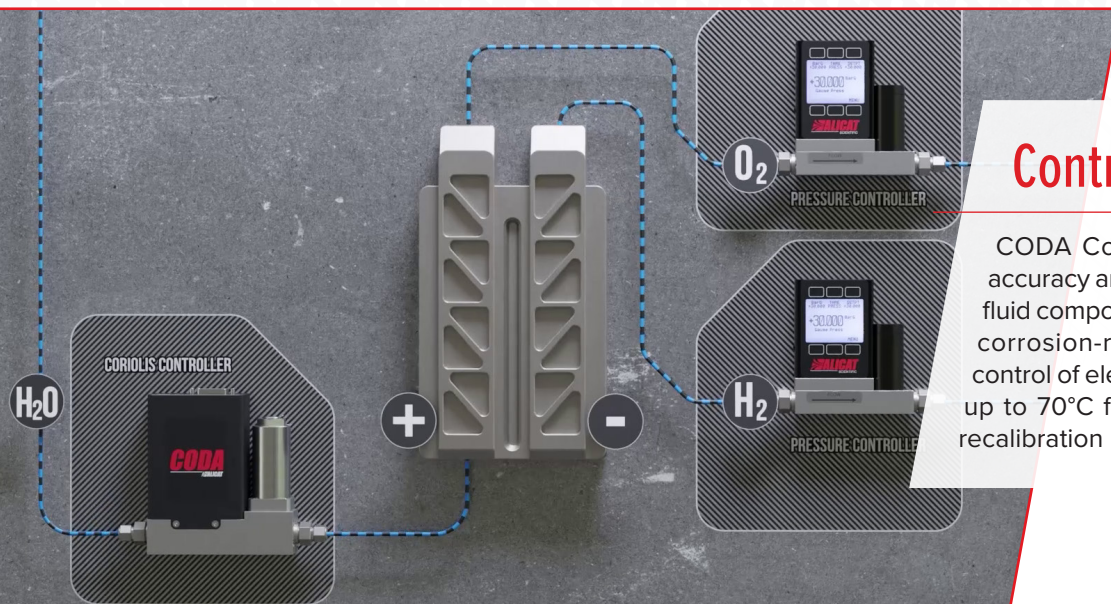


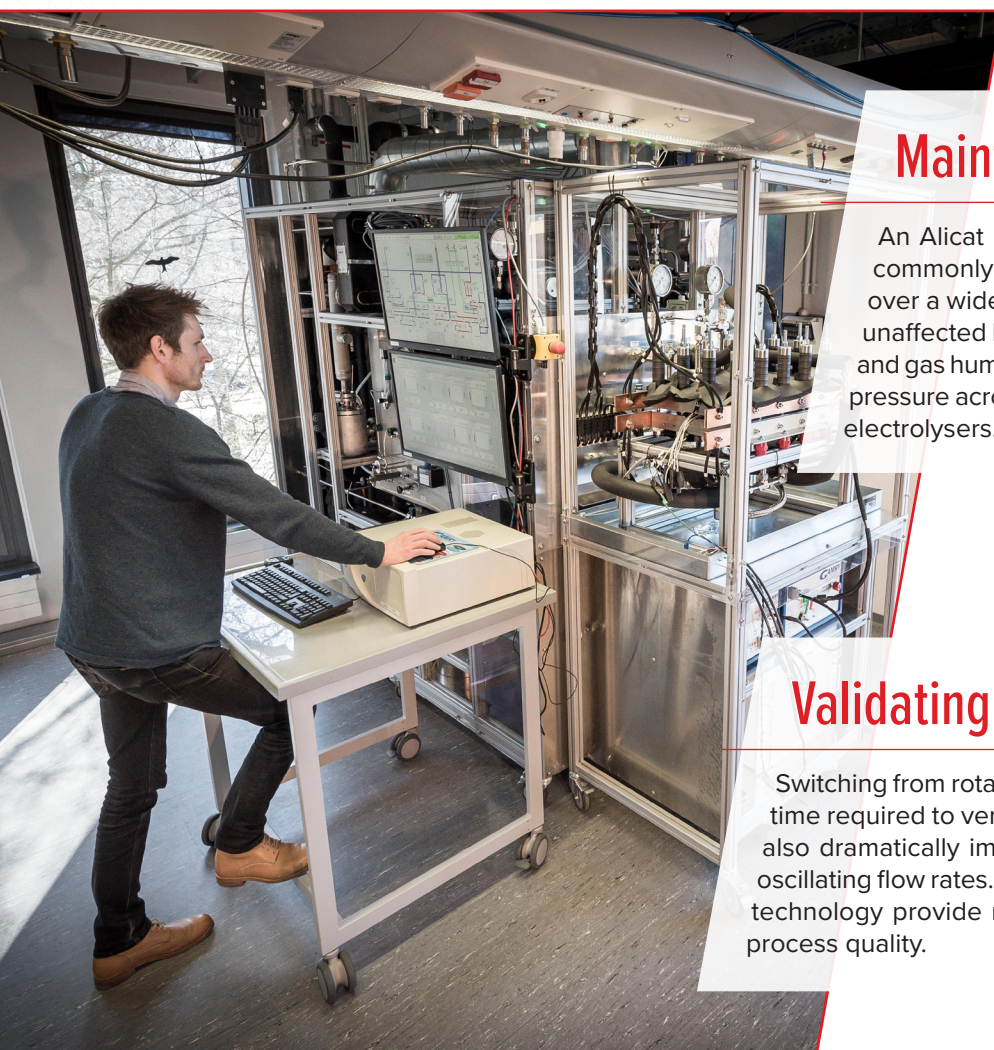
Future-Proof Your Electrolysis Process

PRESSURE AND FLOW INSTRUMENTATION



Controlling DI Water

CODA Coriolis instruments offer exceptional accuracy and repeatability even when electrolysis fluid composition is changing or unknown. CODA's corrosion-resistant design also allows for the control of electrolysis liquid flow with temperatures up to 70°C for extended lengths of time without recalibration or maintenance.



Maintaining Pressure

An Alicat back pressure regulator with a remote valve is commonly used to regulate electrolyser system pressure over a wide range (0.01–100% of full scale) while remaining unaffected by factors such as high temperatures, pressures, and gas humidity. Alicat's fast, responsive control of differential pressure across a membrane maximizes the efficiency of PEM electrolyzers.

Validating Production

Switching from rotameters to Alicat mass flow meters decreases the time required to verify an electrolyser's hydrogen flow rates. Alicats also dramatically improve the accuracy of the readings, even with oscillating flow rates. Onboard, real-time flow totalizers and averaging technology provide repeatable, comparable results that guarantee process quality.

Photo courtesy of ZBT GmbH



A Halma company

alicat.com/hydrogen

Solutions That Scale With You

PRESSURE AND FLOW INSTRUMENTATION



CODA Coriolis Controllers

Monitor and regulate extremely low flows of water even in harsh operating conditions.

- ▶ 500 ms control response
- ▶ NIST-traceable accuracy as good as $\pm 0.2\%$ of reading or $\pm 0.05\%$ of full scale for liquids
- ▶ Operating conditions -35 to 70°C (fluid); 1500 PSIA most units
- ▶ Full scale range between 40 g/h and 100kg/h
- **Low long-term cost of ownership** with no required annual recalibration
- **Long-term corrosion resistance**
- **High zero stability** and significantly more resistant to external vibrations and bumps than competing Coriolis products
- **Easy integration** with your choice of communication protocol, fittings, electrical connectors, and more
- **Lifetime warranty** and technical support



DP Mass Flow Meters & Controllers

Ensure minimal waste and accurate results with fast, precise differential pressure-based measurement and control of gas flows in electrolysis processes.

- ▶ 10 ms measurement response; 30 ms control response
- ▶ Program and accurately measure and control mixtures of up to 5 gases
- ▶ NIST-traceable accuracy as good as 0.5% of reading
- ▶ Class 1, Division 2 device options available
- ▶ Full scale flow rates from 0.5 SCCM to 5000 SLPM
- **Switch between 130 pre-loaded gases** with a push of a button
- **Easy integration** with your choice of communication protocol, fittings, electrical connectors, and more
- **Lifetime warranty** and technical support



Absolute and Gauge Pressure Controllers

Maximize efficiency in PEM electrolysis with accurate, repeatable pressure control.

- ▶ 10 ms measurement response; 30 ms control response
- ▶ 0.01–100% of full scale control range
- ▶ NIST-traceable accuracy as good as 0.125% of full scale
- ▶ Class 1, Division 2 device options available
- ▶ Custom pressure ranges from vacuum to 3000 PSIG
- **Control pressures in flowing processes or closed volumes** with forward and backpressure options
- **Easy integration** with your choice of communication protocol, fittings, electrical connectors, and more
- **Lifetime warranty** and technical support

