BROOKS® INSTRUMENT



Precision Fluid Control for a Cleaner Energy Future

Brooks Instrument provides high-performance flow and pressure control technologies that enable safe, efficient, and scalable operations across hydrogen production, fuel cells, carbon capture, and e-fuel synthesis.

Electrolyzers

- Accurate flow control enhances reaction efficiency and maximizes hydrogen yield for smooth, safe production.
- Consistent pressure monitoring across reactors, storage vessels, and pipelines safeguards system integrity.

Decarbonization Fuels

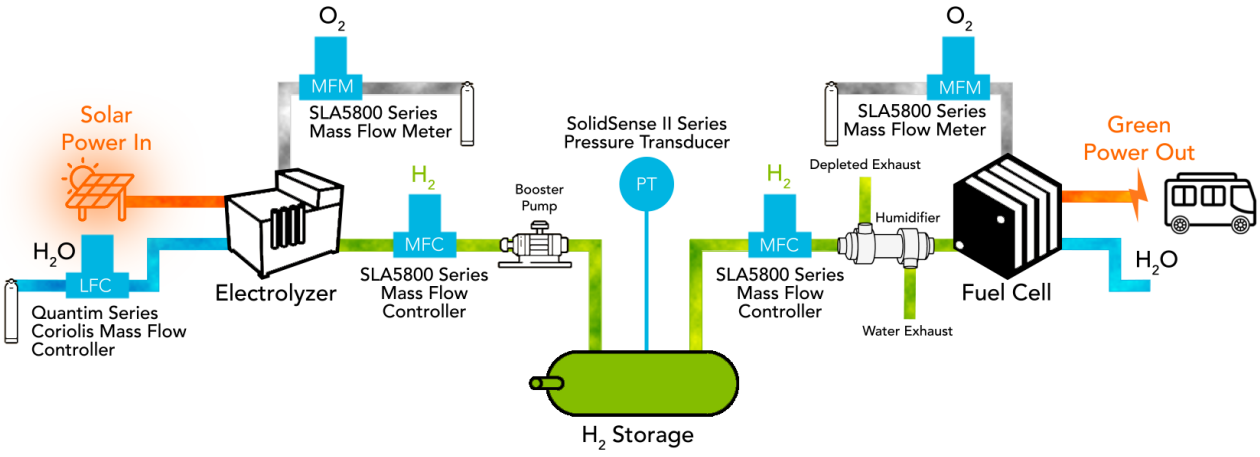
- Precision gas and liquid control for synthetic fuel production.
- Enables PtL and PtG processes using renewable H_2 and CO_2.

Carbon Capture, Use & Storage

- Ensure safe, precise CO_2 flow management from capture through transport to storage, paired with data-driven monitoring to maintain long-term integrity and optimize performance.
- Streamline sorbent regeneration and flue-gas metering to maximize capture efficiency and reduce operational costs.

Fuel Cell Testing

- Precisely regulate H_2, O_2, and humidification flows while maintaining stable stack pressures and differentials to ensure consistent test conditions, prevent leaks, and protect membrane integrity.
- Deliver reliable performance, durability, and efficiency data by enabling accurate assessment throughout testing and development.



Brooks Instrument Solutions for Emerging Energy Technologies



SLA5800 Series
General Purpose
MFCs



Quantim® Coriolis
MFCs



SLAMF Series
IP66 Hosedown
Washdown MFCs



MT3809
Metal Tube
VA Flow Meters



SolidSense II® GRD
Pressure
Transducers

Ultra-Precise Accuracy

Wide Range of Flows & Pressures

Excellent Repeatability

Zero Leak-By Integrity

Product Specifications

Model	Type	Flow Ranges	Max Operating Pressure	Communication Protocols
SLA5800 (General Purpose)	Thermal Mass Flow Controller & Meter	0.003 - 2,500 slpm	1,500 psi / 103 bar *4,500 psi / 310 bar	Analog, DeviceNet™, EtherCAT®, EtherNet/IP™, Profibus®, PROFINET, RS485
SLAMF (IP66 Hosedown Washdown)	Thermal Mass Flow Controller & Meter	0.003 - 2,500 slpm SLAMF64 Meter Only: 1,000 - 36,000 lpm	1,500 psi / 103 bar *4,500 psi / 310 bar	Analog, DeviceNet™, EtherCAT®, EtherNet/IP™, Profibus®, PROFINET, RS485
Quantim QMC	Coriolis Mass Flow Controller & Meter	10 - 27,000 gram/hr	500 psi / 34.5 bar *1,500 psi / 103 bar	Analog, RS485
MT3809	VA Flow Meter	Air: Up to 750 scfm / 1200 m^3n/hr Water: Up to 440 gpm / 100,000 l/h	20,000 psig / 1379 bar	Analog with HART® 7, FOUNDATION Fieldbus
SolidSense II GRD	Pressure Transducer	-	5,000 psi / 345 bar	Analog

*Optional

Certifications & Support

ISO 9001 QUALITY SYSTEM

CE

UL

H_2

Compliant with H_2 Safety Standards

THE BROOKS INSTRUMENT 100% FACTORY CERTIFIED SERVICE ADVANTAGE

Global 24/7 Service Network

BROOKS® INSTRUMENT

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FLYR-00014i-Energy-Transition-0925