



SOFC Test Station STS-10

Key features

Automatic control of flow rate, temperature and back pressure

Pre-heating of gas lines up to 900 °C.

Variety of electronic loads and potentiostats available

Integration of custom furnaces

Robust system based on industrial PLC with data logging into SQL database

Safety features for fully automated operation

Testing of solid oxide fuel cells and short stacks
100 W - 1 kW

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Specifications

Power Range:

100 W - 1 kW

Fuel Flow-Rate Range:

0.5 – 25 slpm

Temperature control of custom furnace:

up to 900 °C

Options:

Zero-voltage load, potentiostat with EIS, additional gas lines

Applications

Research and development of solid oxide fuel cells poses specific requirements to the testing equipment, as it must operate at high temperatures. Leancat STS-10 satisfies all requirements of SOFC testing with the ability to preheat inlet gases and extensive scripting possibilities.

Max. Voltage & Current:

1200 A

Oxidant Flow-Rate Range:

1.8 – 90 slpm

Gas Pre-Heating Temperature Range:

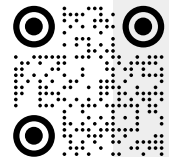
up to 900 °C

Back-Pressure Control Range:

adjustable

Cell Voltage Monitoring:

Customizable number of channels



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