

Fuel Cell Test Station TS100W



WIDE RANGE OF FULLY CUSTOMIZABLE
PROFESSIONAL TESTING SOLUTIONS
100W – 130kW



Gas supply specification

Value

MFC Gas flow - anode	0–5 slpm
MFC Gas flow - cathode	0–10 slpm
MFC additional gas (CO, ...)	Optional
N2 purge	Yes

Pressure control and measurement

Backpressure gas controller - anode and cathode	Yes
Cell inlet pressure sensor range - anode and cathode	Yes
Gas inlets pressure sensors	Yes

Humidification

Humidifier – micro bubbler	Yes
Dew point	From room temperature to 95°C
Anode/Cathode Dry gas bypass function	Yes
Automatic water reservoir refilling	Yes
Low water level warning	Yes
Programmable over temperature shutdown	Yes
Automatic dry by-pass	Yes

Cell connectivity

Thermally isolated inlet hoses	Yes
Internal tubing heaters	Yes
Thermocouples	Yes
Cell heater	Integrated PID control

Electronic load 100W

Programmable electronic load	Yes
True Zero load for single cell testing	Optional
Standard working modes	Const. Voltage Const. Current
Current ranges	0 - 20 A
Voltage range	0 - 20 V
Useable maximum power	100 W

Impedance spectroscopy

Integrated EIS	Optional
----------------	----------

Automation and control system

Desktop master PC	OS Windows 10
Internal slave industrial computer	PLC controlled by PC using web interface
Remote control	Yes
Software with graphic interface	Yes
Data storage	Yes

Security

Security shut down with hydrogen/nitrogen purging	Yes
Emergency Manual shut down switch (E-stop)	Yes
Remote Emergency shut down (HW interlock)	Yes
Closed exhaust system with water separator	Yes

Dimensions and weight

Size	600x800x1000 mm
Weight	100 kg

Send us your requirements and we will prepare a detailed offer for your turn-key project. We have 10+ years of experience in MEA and stack testing.



LEANCAT s.r.o.
U Pergamenky 1145/12
170 00 Praha, Czech Republic
info@lean-cat.com

www.lean-cat.com