

Open-Cathode Stack Tester OBT



LEANCAT
FUEL CELL TECHNOLOGY



Key features

- Suitable for open-cathode **PEM fuel cell stacks**
- Configurations for testing stacks with **up to 60 cells**
- Current range **up to 300 A**
- Power supply and control of **cooling fans**
- Safety features for **fully-automated** operation
- CE certificate of conformity

Gas supply specification

Inlet gas interface	hydrogen, nitrogen
Fuel pressure regulation valve	manual
N ₂ purge	automatic

FC stack connectivity

Thermocouples	up to 6 interfaces
Interface for cooling fans	up to 6 interfaces 5 / 12 / 24 V power supply RPM regulation for ebm-papst ventilators
Dead-end mode	interfaces for externally controlled and powered recirculation pump (optional)

Load bank options

Max. power	1.4 / 2.1 / 3.2 kW
Max. current	120 / 180 / 300 A
Max. voltage	60 V

Sensors

Pressure sensor	anode line at fuel supply and stack inlet and outlet (optional)
Voltage sense input	
Cell voltage monitoring	up to 60 channels

Software control and security

Process control	industrial PLC
Data logging	SQL database
Client SW for Windows	

Safety systems

Features	safety shutdown with N ₂ purging emergency stop button hydrogen sensors (1 inside and 1 ambient) alarm system and history
Closed exhaust system (anode)	incl. water separator

Dimensions and weight

Design	bench-top
Size (W x D x H)	700 x 550 x 750 mm
Weight	100 kg



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