



## SINGLE CELL TESTING

- For R&D on MEAs, GDLs, electrodes, gaskets, bipolar plates or catalysts
- Single cells and short stacks up to 500 W power range
- Compact plug and play system with ergonomic footprint
- Fully automated for safe, reliable and unattended operation in hydrogen safe area
- Maximum performance and safety via integrated PLC
- Optional embedded impedance analyzer and cyclic voltammetry function

**HORIBA**FuelCon

Evaluator C50-LT



## GENERAL FACTS

Standard anode flow range [Nl/min]	0.05 to 5
Standard cathode flow range [Nl/min]	0.20 to 20
Footprint L x W x H, [meter] (inches)	1.1 x 0.8 x 1.65 (43" x 32" x 65")
Standard gas temperature	130 °C (266 °F)
Humidity range [HR]	Dry (by-pass) to 100 % @ 90 °C (194 °F)
Back pressure control range [bara]	1.1 to 4.0
Electronic load	Up to 200 A autoranging 2.5 V, 6 V; 500 W zero voltage option
Active test item thermo setting	Receptacles for temperature sensor, cell end plate heater and cooling blower, PID control loop
Safety features	PLC controlled 3-level alarming system, programmable nitrogen purge, emergency stop
Data logging	SQL data base

The Evaluator C50-LT offers outstanding performance of HORIBA FuelCon's Evaluator C and S series in a clever package design. The system contains all the necessary features for cell testing including humidification, electronic flow control, temperature and pressure control, nitrogen purge and electronic load management.

Combined with HORIBA FuelCon's sophisticated TestWork software, this system operates using either hydrogen or reformat fuels and is ideally designed

## OPTIONS

Reformat simulation  
TrueData-EIS (impedance analysis)  
TrueData-CYV (cyclic voltammetry)

## SAFETY

CE conformity marking (according to)  
EMC directive 2014/30/EC  
Low voltage directive 2014/35/EC  
ATEX directive 2014/34/EC  
General product safety directive 2001/95/EC  
Machinery directive 2006/42/EC  
Pressure equipment directive 2014/68/EC

Risk assessment  
DIN EN ISO 13849  
DIN EN ISO 12100

for MEA developers, universities conducting fuel cell research, or stack developers performing initial single cell or short stack testing.

The integration of several devices from our TrueData line of diagnostic products such as our impedance analyzer, cyclic voltammetry or current density distribution analyzer allows operators to perform detailed studies of material behavior under real application conditions up to operating temperatures of 130 °C.

Please feel free to download the latest information available at [www.horiba-fuelcon.com](http://www.horiba-fuelcon.com). If you have any questions, please do not hesitate to contact us. We will be happy to support you and discuss your testing requirements!

HORIBA FuelCon reserves the right to make changes at any time without notice.

BZM045\_01\_29 2019/02

**HORIBA**FuelCon

Steinfeldstr. 1  
39179 Barleben | Germany

T +49 39203 514 400  
F +49 39203 514 409

info@horiba-fuelcon.com  
www.horiba-fuelcon.com