



IMPEDANCE SPECTRUM ANALYZER

- For fuel cell and battery research and diagnostics
- Performs automated testing under unattended operation
- Supports charge neutral measuring (CN measuring)
- Automatic drift compensation
- Rapid measurement of impedance spectrums between 200 μ Hz and 100 kHz
- Compatible with external loads, potentiostats and galvanostats up to 1,000 ADC
- Multiplexer TrueData-MUX with 12, 24 or 36 channels

HORIBAFuelCon

TrueData-EIS

GENERAL FACTS

Impedance range	5 $\mu\Omega$ to 15 Ω
Impedance accuracy	Up to 0.1 m Ω
Frequency range	200 μ Hz up to 100 kHz
AC modulation current	2.5 A, 5.0 A, 7.5 A, 10 A
DC voltage maximum	10 V, 35 V, 70 V, 100 V
DC current maximum	100 A, 250 A, 500 A, 1,000 A
Power supply	100 to 230 V _{AC}
Housing	19" housing
CN-Measuring (charge neutral)	TrueData-EIS CN
Execution	Integrated or stand-alone
L-Measuring (load measuring)	
DC drift compensation	
Memory card	
RS232-Interface and Ethernet	
Webserver	



The HORIBA FuelCon TrueData product line consists of various analytical tools and accessories to assist investigators in the field of fuel cell, battery, super capacitor or general electrochemistry research. The TrueData-EIS impedance analyzer is a high-capacity, noninvasive diagnostic tool designed by HORIBA FuelCon for measuring the electrochemical impedance spectrum of components during operation under different load conditions.

It bases on the single-sine-method and explores impedance spectrums in a frequency and power range, which is especially interesting for the fuel cell and battery development: from 200 μ Hz up to 100 kHz with a maximum DC current of 1,000 A. Typically, the EIS is applied together with electronic load modules of TrueData-LOAD.

In addition, the TrueData-EIS is compatible with a various number of external loads, potentiostats and galvanostats.

Its optimum performance the TrueData-EIS reaches in combination with the HORIBA FuelCon Evaluator test station and the operator software TestWork. The optional multiplexmodule enables the easy and cost-optimized realization of multi-channel measuring arrangements.

Beside the integrated version of TrueData-EIS, HORIBA FuelCon also offers a stand-alone EIS in a mobile version. This device comes along with or without TrueData-LOAD, depending on the final application.

Please feel free to download the latest information available at 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.

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