

fuel cell EZlab



The EZlab is a fully-equipped fuel cell test station. The EZlab is designed for simplicity and safety, enabling selection of reactant streams, temperature, humidity and flow rate control for both anode and cathode. The EZlab can be controlled by EZstat Pro or Powerstat potentiostat/galvanostats.

The EZlab, designed with the student in mind, provides a robust, simple, neatly-packaged and fully-equipped fuel cell stand with all components clearly visible and labeled. There is no better front panel for educational purposes. The high performance potentiostat/galvanostats enable fundamental research and development using the EZlab.

NuVant's LabVIEW software controls the EZlab Station. This software is robust, easy to use and understand, and powerful enough to control the test station over a wide range of experimental and operating conditions. The EZlab is equipped with:

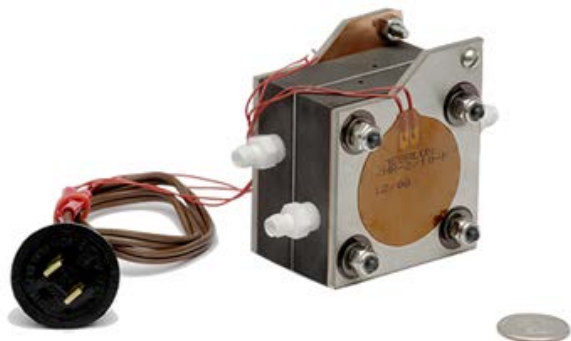
A 5 cm² Single cell fuel cell with thermocouple, 2 stainless steel humidifier bottles with Nafion tubing interior and heated flexible transfer lines, 5 temperature controllers for humidifiers, transfer lines and fuel cell, 2 pressure regulators (0-20 psi output, 0 – 500 psi input), 2 liquid filled gauges (0-30 psi), 2 high precision flow meters (0 – 260 sccm air) and 2 5-way stainless steel flow meters for gas selection.

Specifications	Price
EZlab with no potentiostat	\$12,000
EZlab with EZstat Pro potentiostat	\$17,600

Please call for more information ►►►

NuVant Systems Inc.
130 N. West Street
Crown Point, IN 46307
(219) 644-3231
info@nuvant.com
www.nuvant.com

SINGLE-CELL FUEL CELL



Overview

The single-cell fuel cell test hardware is a simple design that allows for rapid testing of membrane/electrode assemblies (MEAs) in NuVant Systems' EZlab fuel cell test station. Two aluminum end plates are bolted together to compress the MEA between two graphite blocks. Serpentine flow fields are machined into the graphite blocks to provide reactant and product flow.

Single-Cell Fuel Cell w/Thermocouple

The single-cell fuel cell (flow field active area of 5 cm²) includes end plates, graphite flow field blocks, heating pads, insulated nuts and bolts and a gasket. Includes internal thermocouple.

Single-Cell Fuel Cell

The single-cell fuel cell (flow field active area of 5 cm²) includes end plates, graphite flow field blocks, heating pads, insulated nuts and bolts and a gasket. No thermocouple included.

- 5 cm² hardware with thermocouple: \$1,050
- 5 cm² hardware without thermocouple: \$1,015

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