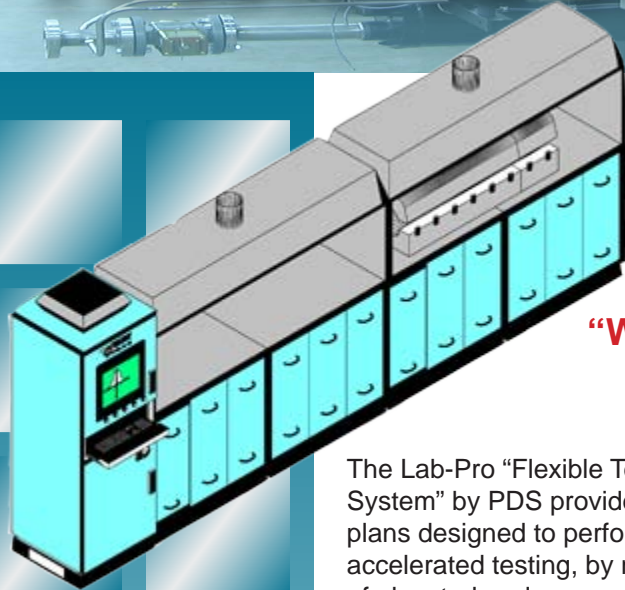


# PRECISION DESIGN SYSTEMS



## Lab-Pro 3000

### “What Makes Our Test Equipment Superior”

#### Flexible Fuel Cell Test Stand

The Lab-Pro “Flexible Test System” by PDS provides test plans designed to perform accelerated testing, by means of elevated or decreased temperatures, increased electronic loads, varying fuel flows and compositions. By introducing artificial contaminants, increased loads and other exaggerated factors and conditions the membrane materials and MEA's will experience accelerated aging. Measuring the affects of this accelerated aging and comparing them to the affects of know conventional aging will allow the accelerated testing protocols to be proven out. Benefits from the accelerated testing concept are primarily; shorter testing durations, resulting in lower testing costs and faster reaction times from the developer, reacting to the test data. The concept of accelerated testing is gaining more and more acceptance and is being implemented by most major test equipment manufactures. The data generated via an accelerated

test would be compared to standard test data and conventional testing methods, to establish a benchmark and to validate that accelerated data was accurate. This would be done through analyzing the accelerated test data and matching the acceleration curves to the conventional test results. Using accelerated testing protocols could reduce fuel cell testing as much as 50%, “Faster Is Better”. For more in formation about PDS and our fuel cell testing products please contact Bill West at 585-426-4500 X116.

#### The PDS modular test systems feature measurement capabilities such as:

- Gas flow measurement and control 0 – 10 SLPM
- Relative humidity measurement & control 0 –95% @ 90°C
- Current 0 – 20Kw
- Voltage range 5 – 48 Vdc
- Gas Chromatography
- Flow 200 SLPM
- Mass Spectroscopy
- Impedance
- AC amplitude range 0 to 10 Vrms
- Voltage measurement range 0 to 200Vdc
- Frequency range 100Hz to 32MHz
- Impedence range 10Mohm to 100Mohm
- Impedence accuracy 0.1%, 0.10

Precision Design Systems

**100 Elmgrove Park  
Rochester, NY 14624**  
Phone (585) 426-4500  
Fax (585) 426-4548

[www.precisiondesigns.com](http://www.precisiondesigns.com)