

# Smart2 PEM/DM Series

## PEMFC/DMFC Single Cell Fuel Cell Test System



- *Fully Integrated Compact Size*
- *Suitable for PEMFC & DMFC single cell*
- *Automatic purge gas control*
- *Temperature measurement and control*
- *Watch-dog function*
- *Fully automatic by PC control*
- *Accurate electronic load for fuel cell application*
- *Stoichiometric control is available*
- *Piston Pump for Methanol flow control*
- *Nafion membrane type humidifiers for fuel and oxidant gas*
- *LAN communication*

### Single cell PEMFC/DMFC Hybrid test system

The SMART2 PEM/DMFC test system is very compact, however, fully automated and integrated at a very attractive price. This system was designed to test 100Watt PEMFC or DMFC in one system. SMART2 includes PC controlled electronic load, gas/liquid controller, humidifiers and Methanol pump. Our control and measurement software with powerful graphical user interface makes you easy to operate the SMART2 test system. With the exceptional features of the SMART2, you can digitize your fuel cell economically and evaluate it easily.

100Watt SMART2PEM/DM supports the following safety feature

1. Watch dog function: If there is no communication between control PC and system, System will be stopped automatically
2. Emergency button: Hardware and software emergency button provided
3. User can set safety limit value for each devices
4. Low voltage limit and high voltage limit setting: If the fuel cell(stack) is over high voltage limit or less than low voltage limit, Electronic load will not discharge the cell.
5. Water supply: Automatic water supply is done by level sensor(high & low)

The WFTS software for Smart2 series is a convenient and powerful tool allowing:

Quick and Easy Test Configuration  
 Real-Time Graphic Data Output  
 User Friendly Graphical User Interface & Continuous Data Logging  
 Background server program  
 Independent Data Managing software  
 VOI (Value of Interest) Displaying selection  
 Colorful display of each module status

The **Smart2PEMDM** series can communicate with the computer by the way of a Local Area Network(LAN).

