

896 Stack Monitor System

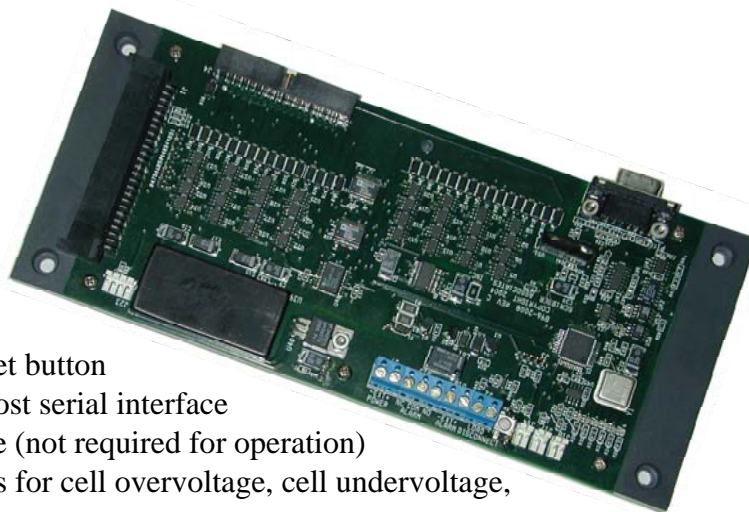


The Series 896 is a family of modular cell voltage monitoring systems. These devices are intended primarily for monitoring the individual cell voltages of an operating fuel cell stack, but could also be used for other series-connected voltage sources or energy-consuming devices such as batteries or electrolyzers. The Series 896 may be used as a standalone component of the stack or may be host-controlled by a supervisory computer. Connector interface boards can be customized for the mechanical details of the stack used to allow the Series 896 to interface to a wide variety of stack designs.

A Windows™ 32-bit host software package is included to optionally perform reporting, control, and data logging functions.

Features:

- Voltage monitoring of 32, 64, 96, or 128 cells
- Temperature monitoring of up to four locations
- Digital input monitoring for coolant flow loss or other alarm conditions
- Control output for external load disconnect solid-state relay
- Visual indicators of power, alarm, and alarm reset button
- Limits and number of cells programmed using host serial interface
- Control and monitoring from host serial interface (not required for operation)
- Automatic shutdown of relay and contact outputs for cell overvoltage, cell undervoltage, and cell overtemperature conditions
- Modular, low profile mechanical design
- Self-powered by stack or external DC source
- External power supply connection available
- Nonvolatile storage of temperature, voltage, and other parameters outside programmed limits
- Nonvolatile controlled-access storage of serial number, date of manufacture, and service history
- Alarm relay contacts for signaling external systems



Specifications:

Number of Channels:	32, 64, 96, or 128 (depending on module combinations)
Cell Voltage Range:	-5.000V to +5.000V
Maximum Stack Voltage:	130 V
Cell Voltage Resolution:	3mV
Cell Voltage Accuracy:	5mV (At 800mV nominal per cell on all cells)
Temperature Accuracy:	3 deg C
Host Interface:	RS232 or RS485 (cable selected), factory set parameters
Operating Temperature:	0-60 degrees C
Dimensions (inches):	9 1/2" W x 4" D x 1 1/2" H
Power Source:	Self-powered with at least 30 cells connected or 12 to 24 VDC external

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