Measure the Voltage, Current, Temperature, and Humidity of a Fuel Cell Stack

**Highlights**

You can measure the characteristics of a high voltage fuel cell stack using one LR8401-20 Memory HiLogger that has a voltage to ground of up to 300 V.

*You can acquire up to 60-channel data using one LR8401 Memory HiLogger and two LR8501 Universal Units.
*The power of the Z2000 Humidity Sensor can be supplied from the Memory HiLogger.
*You can connect a thermocouple and voltage probe to a cell of the fuel cell stack because the LR8401 has a voltage to ground of up to 300 V.
*Make sure the Z2000 Humidity Sensor does not come into contact with an area that has a voltage, because the power supply for the sensor is not isolated. A platinum temperature-sensing element cannot be used because it is not isolated. The metal portion of the thermocouple is exposed.
*Do not touch it during measurement because voltage is present.

**Products used**

- MEMORY HiLOGGER LR8401-20
- UNIVERSAL UNIT LR8501
- CLAMP ON AC/DC HiTESTER 3285
- HUMIDITY SENSOR Z2000
- OUTPUT CORD 9094

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Information valid as of February 2011. Specifications are subject to change and revision without notice.