

892e Data Expansion System



Add temperature, voltage, current, pressure and other data inputs to the 840, 850 or 890 Series of Fuel Cell Test Systems

General:

The Model 892e Data Expansion Subsystem is a hardware component intended to increase the input capabilities of the 850C/e and 890C/CL/e series of fuel cell test systems. The Model 892e is configured with two factory-installed eight-channel data acquisition modules, each of which is factory-configured for one of several input types.

Features:

- Remote operation from RS485 interface of 840, 850C/e, 890C/CL/e, and 857 series test systems.
- 8 thermocouple inputs with cold junction compensation using miniature thermocouple connectors
- 8 Voltage or Current inputs using circular locking connector with cable wired for voltage transducer, current transducer or general analog input
- Pass-through RS485 connector for use with other accessory equipment
- 2U 19" rack-mount enclosure
- Supported by *FuelCell*®, and *FlowCell*™ software directly

Specifications:

Number of Channels:	16 (differential)
Input Types:	8 Thermocouple + 8 mV, V, or mA
Thermocouple Types:	J (-210 to 760 °C) K (-270 to 1,372 °C) T (-270 to 400 °C) E (-270 to 1,000 °C) R (0 to 1,768 °C) S (0 to 1,768 °C) B (0 to 1,820 °C) C (0 to 2,320 °C)
Input Voltage Ranges:	±150 mV, ±500 mV, ±1 V, ±5 V, ±10V
Voltage Accuracy:	±0.1% of full-scale
Input Current Range:	±20 mA (using 125 Ω, 0.1% resistor)
Current Accuracy:	±0.1% of full-scale
Voltage, Current Resolution:	0.01 % of full scale
AC Noise Rejection (50/60Hz):	Common Mode: 120 VAC
Input Over-voltage Protection:	±35 V
Input Impedance (differential):	2x10 ⁷ Ω or greater
Max. Voltage Difference on 8-Channel Group:	±10 V for ±5 V and ±10 V ranges, ±2.5 V for other ranges
Temperature Accuracy:	±0.5 °C at 0 °C
Temperature Resolution:	0.01 °C
Power Requirement:	100-240 V, 50/60Hz, 0.3A (Auto Voltage Select)
Operating Temperature:	0 - 40 °C
Physical Dimensions:	2U rack-mount, 9 cm H x 48 cm W x 20 cm D (3.5 in. H x 19 in. W x 8 in. D)

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