Portable USB-Based DAQ for Thermocouples

NI USB-9211A (Windows)

- Small, portable devices (12.1 by 8.6 by 2.5 cm)
- 4 channels of 24-bit thermocouple input
- Internal cold-junction sensors
- Compatible with J, K, R, S, T, N, E, and B thermocouple types
- Built-in, removable connectors for easier and more cost-effective connectivity
- 250 V_{rms} channel-to-earth ground isolation
- Plug-and-play connectivity via USB
- Bus-powered

Operating Systems

Windows Vista/XP/2000

Recommended Software

- LabVIEW
- LabWindows[™]/CVI
- Measurement Studio

Measurement Services Software (included)

- NI-DAQmx driver software
- LabVIEW SignalExpress LE



Product	Signal Type	Channels (DI)	Input Resolution (bits)	Maximum Sampling Rate (S/s)	Input Range (mV)	Operating System	Driver Software ¹
USB-9211A	Thermocouple	4	24	12	±80	Windows	NI-DAQmx

Table 1. Portable USB DAQ for Thermocouples Selection Guide

Overview

The National Instruments USB-9211A is a data acquisition module with integrated signal conditioning that provides plug-and-play connectivity via USB for faster setup and measurements. It is designed especially for thermocouple measurements with 24 bits of resolution for superior accuracy and built-in sensors for cold-junction compensation. In addition, this module includes 250 V_{rms} channel-to-earth ground isolation for safety, noise immunity, and high common-mode voltage range.

Software

The NI USB-9211A uses NI-DAQmx high-performance, multithreaded driver software for interactive configuration and data acquisition on Windows OSs. All NI data acquisition devices shipped with NI-DAQmx also include NI LabVIEW SignalExpress LE configuration-based data-logging software.

Recommended Accessories

The USB-9211A has built-in screw-terminal connectivity, so no additional accessories are required.

Common Applications

The USB-9211A is ideal for a number of applications where small size and portability are essential, such as:

- Portable data logging log temperature data quickly and easily
- Academic lab use obtain academic discounts for quantities of five or more (visit ni.com/academic for details)
- Environmental monitoring monitor environmental temperature conditions
- Embedded OEM applications
- In-vehicle data acquisition

Information for OEM Customers

For information on special configurations and pricing, visit **ni.com/oem**.

Ordering Information

NI USB-9211A (Windows)779436-01

BUY NOW!

For complete product specifications, pricing, and accessory information, call 800 813 3693 (U.S.) or go to ni.com/oem.



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Hardware Services

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NI Factory Installation Services (FIS) is the fastest and easiest way to use your PXI or PXI/SCXI combination systems right out of the box. Trained NI technicians install the software and hardware and configure the system to your specifications. NI extends the standard warranty by one year on hardware components (controllers, chassis, modules) purchased with FIS. To use FIS, simply configure your system online with ni.com/pxiadvisor.

Calibration Services

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