

Portable USB-Based DAQ for Thermocouples

NI USB-9211A (Mac/Linux®)

- 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

- Mac OS X
- Linux

Recommended Software

- LabVIEW

Measurement Services Software (included)

- NI-DAQmx Base



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	Mac OS X and Linux	NI-DAQmx Base

¹For up-to-date information on NI-DAQ, visit ni.com/support/daq/versions.htm.

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 for Mac OS X and Linux uses NI-DAQmx Base, a multiplatform driver with a limited NI-DAQmx programming interface. You can use NI-DAQmx Base to develop customized data acquisition applications with NI LabVIEW or C-based development environments. NI-DAQmx Base includes a ready-to-run data logger application that acquires and logs up to four channels of analog data.

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 (Mac/Linux)780100-01

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

NI Factory Installation Services

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

NI recognizes the need to maintain properly calibrated devices for high-accuracy measurements. We provide manual calibration procedures, services to recalibrate your products, and automated calibration software specifically designed for use by metrology laboratories. Visit ni.com/calibration.

Repair and Extended Warranty

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