

## Ni 9217 Manual

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### **Ni 9217 Manual**

The NI 9217 scans all four input channels and automatically configures each channel for the appropriate mode. In 4-wire mode, the EX terminal is a 1 mA current source. In 3-wire mode, the RTD+ terminal is a 1 mA current source. The NI 9217 compensates for the error that lead resistance causes in 3-wire mode.

### **NI 9217 Getting Started Guide - National Instruments**

NI 9217 ADC 4-Wire EX COM RTD+ RTD- Excitation Current Filtered Amplifier 3-wire & 4-wire Detection & Compensation • RTD channels share a common ground that is isolated from other modules in the system. • Each RTD channel is filtered and then sampled by a 24-bit analog-to-digital converter (ADC). NI 9217 Specifications

### **NI 9217 4 RTD, DATASHEET 24 Bit, 400 S/s Aggregate, PT100**

4-Channel, 400 S/s Aggregate, 0  $\Omega$  to 400  $\Omega$ , PT100 RTD C Series Temperature Input Module —The NI-9217 is a resistance

temperature detector (RTD) input module. You can configure the NI-9217 for two sample rate modes: high sample rate or high resolution.

## **NI-9217 - NI**

If you are using the NI 9217 in Gas Group IIC hazardous locations or in ambient temperatures of  $-40\text{ }^{\circ}\text{C} \leq T_a \leq 70\text{ }^{\circ}\text{C}$ , you must use the device in an NI chassis that has been evaluated as EEx nC IIC T4, Ex nA IIC T4, or Ex nL IIC T4 equipment.

## **NATIONAL INSTRUMENTS NI 9217 OPERATING INSTRUCTIONS MANUAL ...**

Page 14 NI 9217 Connection Guidelines • Make sure that devices you connect to the NI 9217 are compatible with the module specifications. • You must use 2-wire ferrules to create a secure connection when connecting more than one wire to a single terminal on the NI 9217.

## **NI 9217 GETTING STARTED MANUAL Pdf Download.**

National instruments NI 9217 Pdf User Manuals. View online or download National instruments NI 9217 Operating Instructions Manual

## **National Instruments NI 9217 Manuals**

Hardware Documentation Refer to the NI 9217 Operating Instructions and Specifications to learn about module specifications and how to use the module. Refer to the CompactRIO Related Documentation for further information about CompactRIO documentation.

## **NI 9217 (FPGA Interface) - CompactRIO Reference and ...**

NI cDAQ TM-9171/9174/9178 User Manual NI CompactDAQ USB 2.0 Chassis NI cDAQ-9171/9174/9178 User Manual July 2016 372838E-01

## **NI CompactDAQ USB 2.0 Chassis**

The NI-9212 channel-to-channel isolation protects channels from continuous voltages up to 250 Vrms and transient (withstand) voltages up to 1500 Vrms. You can use the NI-9212 in a variety of applications that are not conducive for bank-isolated channels

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such as white goods testing, in-vehicle data logging, battery stack testing, as well ...

## **NI-9212 - NI**

The NI 9217 RTD comes with CompactDAQ which is a versatile, rough information procurement platform that coordinates availability, data acquisition, and signal molding into I/O for straightforwardly interfacing to any sensor or signal.

## **NI-9217 National Instruments Temperature Input Module**

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The NI 9217, compatible with 3- and 4-wire RTD measurements, automatically detects the type of RTD (3- or 4-wire) connected to the channel and configures each channel for the appropriate mode. The module can provide 1 mA of current excitation per channel and has less than a 1 °C accuracy error over its entire operating temperature range.

## **National Instruments NI 9217 - In Stock, We Buy Sell ...**

We have 1 National Instruments NI 9210 manual available for free PDF download: Getting Started Manual . National Instruments NI 9210 Getting Started Manual (21 pages) 4-Channel, 14 S/s Aggregate, +/-80 mV C Series Temperature Input Module. Brand: National ...

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1) If you have already a NI 9217 module, you can connect your PT100 temperature sensor directly without using a transmitter. That means: Remove the transmitter, simply connect red cable (1) to RTD+, white cable (2) to RTD- and the second white cable (3) to COM. Use the sample NI 9217 program provided in the samples folder of NI.

## **NI 9217 with PT100 resistance thermometer connection**

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The NI-9217 manual is not clear to me what the tradeoffs are. I need more speed and was curious if I could achieve similar results to high-resolution mode by using high-speed mode and average the data. Thanks . Dan. 0 Kudos Message 1 of 5 (1,086 Views) Reply. Highlighted.

## **NI-9217 RTD Sampling Speed, High-Resolution vs High-Speed ...**

Description The National Instruments NI 9217 4-Channel 24-Bit C Series Module features four channels and 24 bits of resolution for 100 O RTD measurements.

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