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32 Ch, ± 200 mV to ± 10 V, 16-Bit, 250 kS/s C Series Analog Input Module

NI 9205



- 32 single-ended or 16 differential analog inputs
- 16-bit resolution; 250 kS/s aggregate sampling rate
- ± 200 mV, ± 1 V, ± 5 V, and ± 10 V programmable input ranges
- Hot-swappable operation; overvoltage protection; isolation; NIST-traceable calibration
- -40 to 70 °C operating range
- Spring terminal or D-Sub connectivity

Overview

The NI 9205 is a C Series analog input module for use with NI CompactDAQ and CompactRIO chassis. It features 32 single-ended or 16 differential analog inputs, 16-bit resolution, and a maximum sampling rate of 250 kS/s. Each channel has programmable input ranges of ± 200 mV, ± 1 V, ± 5 V, and ± 10 V. To protect against signal transients, the NI 9205 includes up to 60 V of overvoltage protection between input channels and common (COM). In addition, the NI 9205 includes a channel-to-earth ground double-isolation barrier for safety, noise immunity, and high common-mode voltage range. It is rated for 1,000 Vrms transient overvoltage protection.

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Requirements and Compatibility

OS Information

- Real-Time OS
- Windows

Driver Information

- NI-DAQmx
- NI-RIO

Software Compatibility

- LabVIEW
- LabVIEW SignalExpress
- LabWindows/CVI
- Measurement Studio
- Visual C++
- Visual Studio
- Visual Studio .NET

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Comparison Tables

Module	Signal Type	Channels	Sample Rate	Resolution (bits)
9201	Voltage	8	500 kS/s	12
9203	Current	8	200 kS/s	16
9205	Voltage	32 SE/16 DI	250 kS/s	16
9206	CAT I isolated voltage	16 DI	250 kS/s	16
9215	Voltage	4	100 kS/s per channel	16

Module	Signal Type	Channels	Sample Rate	Resolution (bits)
9217	RTD	4	400 S/s	24
9221	Voltage	8	800 kS/s	12
9227	Current	4	50 kS/s per channel	24
9233	IEPE	4	50 kS/s per channel	24
9235/9236	Quarter-Bridge	8	10 kS/s per channel	24
9237	Bridge	4	50 kS/s per channel	24

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Application and Technology

High-accuracy NI C Series analog input modules for NI CompactDAQ and CompactRIO provide high-performance measurements for a wide variety of industrial, in-vehicle, and laboratory sensors and signal types. Each module includes built-in signal conditioning and an integrated connector with screw terminal or cable options for flexible and low-cost signal wiring. All modules feature CompactRIO Extreme Industrial Certifications and Ratings.

C Series Compatibility

The C Series hardware family features more than 50 measurement modules and several chassis and carriers for deployment. With this variety of modules, you can mix and match measurements such as temperature, acceleration, flow, pressure, strain, acoustic, voltage, current, digital, and more to create a custom system. Install the modules in one of several carriers to create a single module USB, Ethernet, or Wi-Fi system, or combine them in chassis such as NI CompactDAQ and CompactRIO to create a mixed-measurement system with synchronized measurements. You can install up to eight modules in a simple, complete NI CompactDAQ USB data acquisition system to synchronize all of the analog output, analog input, and digital I/O from the modules. For a system without a PC, CompactRIO holds up to eight modules and features a built-in processor, RAM, and storage for an embedded data logger or control unit. For higher-speed control, CompactRIO chassis incorporate a field-programmable gate array (FPGA) that you can program with NI LabVIEW software to achieve silicon-speed processing on I/O data from C Series modules.

Advanced Features

When used with CompactRIO, C Series analog input modules connect directly to reconfigurable I/O (RIO) FPGA hardware to create high-performance embedded systems. The reconfigurable FPGA hardware within CompactRIO provides a variety of options for custom timing, triggering, synchronization, filtering, signal processing, and high-speed decision making for all C Series analog modules. For instance, with CompactRIO, you can implement custom triggering for any analog sensor type on a per-channel basis using the flexibility and performance of the FPGA and the numerous arithmetic and comparison function blocks built into the LabVIEW FPGA Module.

Key Features

- High-accuracy, high-performance analog measurements for any CompactRIO embedded system, R Series expansion chassis, or NI CompactDAQ chassis
- Screw terminals, BNC, D-Sub, spring terminals, strain relief, high voltage, cable, solder cup backshell, and other connectivity options
- Available channel-to-earth ground double-isolation barrier for safety, noise immunity, and high common-mode voltage range
- CompactRIO Extreme Industrial Certifications and Ratings
- Built-in signal conditioning for direct connection to sensors and industrial devices

Visit ni.com/compactrio or ni.com/compactdaq for up-to-date information on module availability, example programs, application notes, and other developer tools.

Connectivity Accessories

There are two connector options for the NI 9205: a 36-position spring terminal connector for direct connectivity or a 37-position D-Sub connector. To add strain relief and high-voltage protection to the 36-position terminal of the NI 9205, NI recommends the NI 9940 strain-relief connector accessory.

The NI 9205 with D-Sub option has an industry-standard 37-position D-Sub connector that provides a low-cost cabling option to a wide variety of accessories from NI or other vendors. A number of vendors who offer custom D-Sub cable fabrication services can provide cables with a pinout that matches your exact application needs. The NI 9933 (or other 37-pin D-Sub connector) is required for use with the NI 9205 with D-Sub. The NI 9933 includes a screw-terminal connector with strain relief as well as a D-Sub solder cup backshell for creating custom cable assemblies.

The NI 9933 includes a screw-terminal connector with strain relief as well as a D-Sub solder cup backshell for creating custom cable assemblies for any module with a 37-pin D-Sub connector.



Figure 2. NI 9933 37-Pin D-Sub Connector Kit with Strain Relief and D-Sub Shell

The NI 9940 connector kit provides strain relief and operator protection from high-voltage signals for any 36-position spring terminal module.



NI 9940 Connector Kit

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Ordering Information

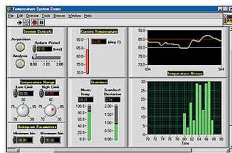
For a complete list of accessories, visit the product page on ni.com.

Products	Part Number	Recommended Accessories	Part Number
NI 9205			
NI 9205 Each NI 9205 requires: 1 Connectivity Accessory	779519-01	Connectivity Accessory: Screw Terminals - NI 9940 Backshell for 36-pos connector block (qty 1)	779567-01
NI 9205			
NI 9205 with DSub CC Each NI 9205 with DSub CC requires: 1 Connectivity Accessory	780173-01	Connectivity Accessory: Screw Terminals - NI 9933 37pin D-Sub connector kit	779103-01
NI 9205			
NI 9205 with DSub Each NI 9205 with DSub requires: 1 Connectivity Accessory	779357-01	Connectivity Accessory: Screw Terminals - NI 9933 37pin D-Sub connector kit	779103-01

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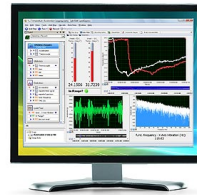
Software Recommendations

LabVIEW Professional Development System for Windows



- Advanced software tools for large project development
- Automatic code generation using DAQ Assistant and Instrument I/O Assistant
- Tight integration with a wide range of hardware
- Advanced measurement analysis and digital signal processing
- Open connectivity with DLLs, ActiveX, and .NET objects
- Capability to build DLLs, executables, and MSI installers

NI LabVIEW SignalExpress for Windows



- Quickly configure projects without programming
- Control over 400 PC-based and stand-alone instruments
- Log data from more than 250 data acquisition devices
- Perform basic signal processing, analysis, and file I/O
- Scale your application with automatic LabVIEW code generation
- Create custom reports or easily export data to LabVIEW, DIAdem or Microsoft Excel

NI LabWindows™/CVI for Windows

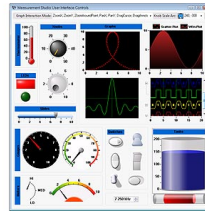
- Real-time advanced 2D graphs and charts
- Complete hardware compatibility with IVI, VISA, DAQ, GPIB, and serial
- Analysis tools for array manipulation, signal processing statistics, and curve fitting
- Simplified cross-platform communication with network variables
- Measurement Studio .NET tools (included in LabWindows/CVI Full only)

NI Measurement Studio Professional Edition

- Support for Microsoft Visual Studio .NET 2010/2008/2005
- Customizable Windows Forms and Web Forms controls for test and measurement user interface design
- Hardware integration support with data acquisition and instrument control libraries
- Automatic code generation with data acquisition, instrument control, and parameter assistants



The mark LabWindows is used under a license from Microsoft Corporation.



Cross-platform communication with network variables

- Analysis libraries for array operations, signal generation, windowing, filters, signal processing

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Support and Services

System Assurance Programs

NI system assurance programs are designed to make it even easier for you to own an NI system. These programs include configuration and deployment services for your NI PXI, CompactRIO, or Compact FieldPoint system. The NI Basic System Assurance Program provides a simple integration test and ensures that your system is delivered completely assembled in one box. When you configure your system with the NI Standard System Assurance Program, you can select from available NI system driver sets and application development environments to create customized, reorderable software configurations. Your system arrives fully assembled and tested in one box with your software preinstalled. When you order your system with the standard program, you also receive system-specific documentation including a bill of materials, an integration test report, a recommended maintenance plan, and frequently asked question documents. Finally, the standard program reduces the total cost of owning an NI system by providing three years of warranty coverage and calibration service. Use the online product advisors at ni.com/advisor to find a system assurance program to meet your needs.

Calibration

NI measurement hardware is calibrated to ensure measurement accuracy and verify that the device meets its published specifications. NI offers a number of calibration services to help maintain the ongoing accuracy of your measurement hardware. These services allow you to be completely confident in your measurements, and help you maintain compliance to standards like ISO 9001, ANSI/NCCL Z540-1 and ISO/IEC 17025. To learn more about NI calibration services or to locate a qualified service center near you, contact your local sales office or visit ni.com/calibration.

Technical Support

Get answers to your technical questions using the following National Instruments resources.

- **Support** - Visit ni.com/support to access the NI KnowledgeBase, example programs, and tutorials or to contact our applications engineers who are located in NI sales offices around the world and speak the local language.
- **Discussion Forums** - Visit forums.ni.com for a diverse set of discussion boards on topics you care about.
- **Online Community** - Visit community.ni.com to find, contribute, or collaborate on customer-contributed technical content with users like you.

Repair

While you may never need your hardware repaired, NI understands that unexpected events may lead to necessary repairs. NI offers repair services performed by highly trained technicians who quickly return your device with the guarantee that it will perform to factory specifications. For more information, visit ni.com/repair.

Training and Certifications

The NI training and certification program delivers the fastest, most certain route to increased proficiency and productivity using NI software and hardware. Training builds the skills to more efficiently develop robust, maintainable applications, while certification validates your knowledge and ability.

- **Classroom training in cities worldwide** - the most comprehensive hands-on training taught by engineers.
- **On-site training at your facility** - an excellent option to train multiple employees at the same time.
- **Online instructor-led training** - lower-cost, remote training if classroom or on-site courses are not possible.
- **Course kits** - lowest-cost, self-paced training that you can use as reference guides.
- **Training memberships** and training credits - to buy now and schedule training later.

Visit ni.com/training for more information.

Extended Warranty

NI offers options for extending the standard product warranty to meet the life-cycle requirements of your project. In addition, because NI understands that your requirements may change, the extended warranty is flexible in length and easily renewed. For more information, visit ni.com/warranty.

OEM

NI offers design-in consulting and product integration assistance if you need NI products for OEM applications. For information about special pricing and services for OEM customers, visit ni.com/oem.

Alliance


Our Professional Services Team is comprised of NI applications engineers, NI Consulting Services, and a worldwide National Instruments Alliance Partner program of more than 600 independent consultants and integrators. Services range from start-up assistance to turnkey system integration. Visit ni.com/alliance.

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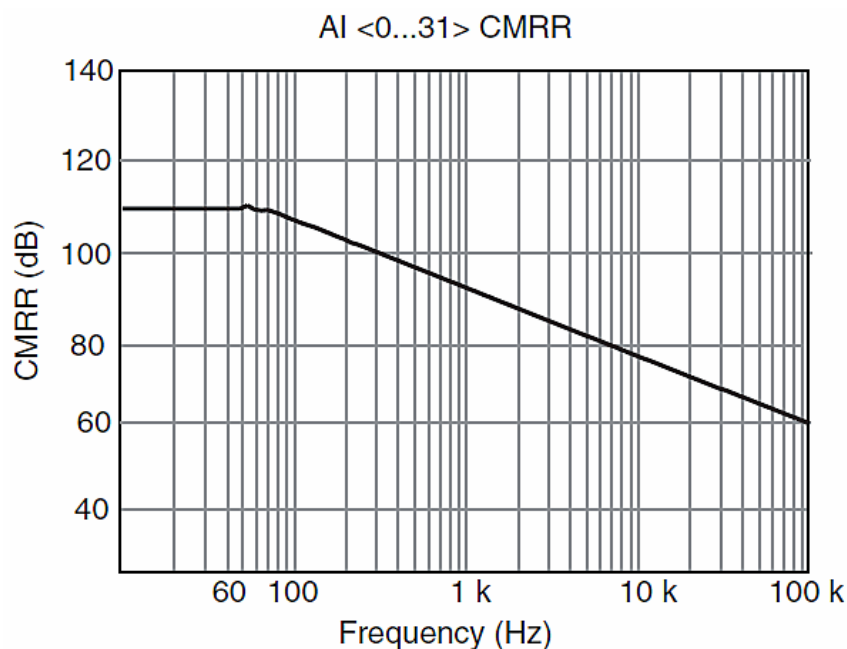
Detailed Specifications

The following specifications are typical for the range –40 to 70 °C unless otherwise noted. All voltages are relative to COM unless otherwise noted.

Analog Input Characteristics

Number of channels	32 single-ended or 16 differential analog input channels, 1 digital input channel, and 1 digital output channel
ADC resolution	16 bits
DNL	No missing codes guaranteed
INL	Refer to the <i>AI Absolute Accuracy Tables and Formulas</i>
MTBF	775,832 hours at 25 °C; Bellcore Issue 6, Method 1, Case 3, Limited Part Stress Method
 Note	Contact NI for Bellcore MTBF specifications at other temperatures or for MIL-HDBK-217F specifications.
Conversion time	
R Series Expansion chassis	4.50 µs (222 kS/s)
All other chassis	4.00 µs (250 kS/s)
Input coupling	DC
Nominal input ranges	±10 V, ±5 V, ±1 V, ±0.2 V
Minimum overrange (for 10 V range)	4%
Maximum working voltage for analog inputs (signal + common mode)	Each channel must remain within ±10.4 V of common
Input impedance (AI-to-COM)	
Powered on	>10 GΩ in parallel with 100 pF
Powered off/overload	4.7 kΩ min
Input bias current	±100 pA
Crosstalk (at 100 kHz)	
Adjacent channels	–65 dB
Non-adjacent channels	–70 dB
Analog bandwidth	370 kHz
Overvoltage protection	
AI channel (0 to 31)	±30 V (one channel only)
AISENSE	±30 V
CMRR (DC to 60 Hz)	100 dB

Typical AI+ to AI– CMRR graph



Settling time for multichannel measurements, accuracy, all ranges

±120 ppm of full-scale step (±8 LSB)

4 µs convert interval

±30 ppm of full-scale step (±2 LSB)	8 µs convert interval
Analog triggers	
Number of triggers	1
Resolution	10 bits, 1 in 1,024
Bandwidth (–3 dB)	370 kHz
Accuracy	±1% of full scale

Scaling coefficients	
Nominal Range (V)	Typical Scaling Coefficient (µV/LSB)
±10	328
±5	164.2
±1	32.8
±0.2	6.57

AI Absolute Accuracy Tables and Formulas

The values in the following tables are based on calibrated scaling coefficients, which are stored in the onboard EEPROM.

Accuracy summary			
Nominal Range (V)	Absolute Accuracy at Full Scale ¹ (µV)	Random Noise, σ (µV _{rms})	Sensitivity ² (µV)
±10	6,230	240	96.0
±5	3,230	116	46.4
±1	690	26	10.4
±0.2	174	10	4.0

Accuracy details						
Nominal Range (V)	Residual Gain Error (ppm of Reading)	Gain Tempco (ppm/°C)	Reference Tempco	Residual Offset Error (ppm of Range)	Offset Tempco (ppm of Range/°C)	INL Error (ppm of Range)
±10	115	11	5	20	44	76
±5	135	11	5	20	47	76
±1	155	11	5	25	66	76
±0.2	215	11	5	40	162	76

Absolute accuracy formulas

$AbsoluteAccuracy = Reading \cdot GainError + Range \cdot OffsetError + NoiseUncertainty$

$GainError = ResidualGainError + GainTempco \cdot TempChangeFromLastInternalCal + ReferenceTempco \cdot TempChangeFromLastExternalCal$

$OffsetError = ResidualOffsetError + OffsetTempco \cdot TempChangeFromLastInternalCal + INL_Error$

$NoiseUncertainty = (RandomNoise \cdot 3) / \sqrt{100}$ for a coverage factor of 3 σ and averaging 100 points.

Absolute accuracy at full scale on the analog input channels is determined using the following assumptions:

$TempChangeFromLastExternalCal = 70 \text{ }^\circ\text{C}$

$TempChangeFromLastInternalCal = 1 \text{ }^\circ\text{C}$

$NumberOfReadings = 100$

$CoverageFactor = 3 \sigma$

For example, on the 10 V range, the absolute accuracy at full scale is as follows:

$GainError = 115 \text{ ppm} + 11 \text{ ppm} \cdot 1 + 5 \text{ ppm} \cdot 70$

$GainError = 476 \text{ ppm}$

$OffsetError = 20 \text{ ppm} + 44 \text{ ppm} \cdot 1 + 76 \text{ ppm}$

$OffsetError = 140 \text{ ppm}$

$NoiseUncertainty = (240 \text{ } \mu\text{V} \cdot 3) / \sqrt{100}$

$NoiseUncertainty = 72 \text{ } \mu\text{V}$

$AbsoluteAccuracy = 10 \text{ V} \cdot 476 \text{ ppm} + 10 \text{ V} \cdot 140 \text{ ppm} + 72 \text{ } \mu\text{V}$


$AbsoluteAccuracy = 6,232 \text{ } \mu\text{V}$ (rounds to 6,230 µV)

Digital Characteristics

Digital input logic levels		
Level	Min	Max
Input high voltage (V_{IH})	2.0 V	3.3 V
Input low voltage (V_{IL})	0 V	0.34 V

Digital output logic levels		
Level	Min	Max
Output high voltage (V_{OH}), sourcing 75 μ A	2.1 V	3.3 V
Output low voltage (V_{OL}), sinking 250 μ A	0 V	0.4 V

Overvoltage protection	± 30 V
External digital triggers	
Source	PFI0
Delay	100 ns max

 **Note** The digital output channel is supported only in CompactRIO systems.

Power Requirements

Power consumption from chassis

Active mode	625 mW max
Sleep mode	15 mW

Thermal dissipation (at 70 °C)

Active mode	625 mW max
Sleep mode	15 mW

Physical Characteristics

Spring-terminal wiring	18 to 28 AWG copper conductor wire with 7 mm (0.28 in.) of insulation stripped from the end
Weight	
NI 9205 with spring terminal	158 g (5.8 oz)
NI 9205 with DSUB	148 g (5.3 oz)

Safety

If you need to clean the module, wipe it with a dry towel.

Maximum Voltage ³

Connect only voltages that are within the following limits.

AI, PFI0, and DO-to-COM	± 30 VDC
-------------------------	--------------

NI 9205 with Spring Terminal Isolation Voltages

Channel-to-channel	None
Channel-to-earth ground	
Continuous	250 V _{rms} , Measurement Category II
Withstand	2,300 V _{rms} , verified by a 5 s dielectric withstand test

Measurement Category II is for measurements performed on circuits directly connected to the electrical distribution system. This category refers to local-level electrical distribution, such as that provided by a standard wall outlet (e.g., 115 V for U.S. or 230 V for Europe). Examples of Measurement Category II are measurements performed on household appliances, portable tools, and similar products.


 **Caution** Do *not* connect the NI 9205 with spring terminal to signals or use for measurements within Measurement Categories III or IV.

NI 9205 with DSUB Isolation Voltages

Channel-to-channel	None
--------------------	------

Channel-to-earth ground	
Continuous	60 VDC, Measurement Category I
Withstand	1,000 V _{rms} , verified by a 5 s dielectric withstand test


Measurement Category I is for measurements performed on circuits not directly connected to the electrical distribution system referred to as MAINS ⁴ voltage. This category is for measurements of voltages from specially protected secondary circuits. Such voltage measurements include signal levels, special equipment, limited-energy parts of equipment, circuits powered by regulated low-voltage sources, and electronics.

 **Caution** Do *not* connect the NI 9205 with DSUB to signals or use for measurements within Measurement Categories II, III, or IV.

Safety Standards

This product is designed to meet the requirements of the following standards of safety for electrical equipment for measurement, control, and laboratory use:

- IEC 61010-1, EN 61010-1
- UL 61010-1, CSA 61010-1

 **Note** For UL and other safety certifications, refer to the product label or the *Online Product Certification* section.

Hazardous Locations

U.S. (UL)	Class I, Division 2, Groups A, B, C, D, T4; Class I, Zone 2, AEx nC IIC T4
Canada (C-UL)	Class I, Division 2, Groups A, B, C, D, T4; Class I, Zone 2, Ex nC IIC T4
Europe (DEMKO)	EEx nC IIC T4

Environmental

National Instruments C Series modules are intended for indoor use only but may be used outdoors if installed in a suitable enclosure. Refer to the manual for the chassis you are using for more information about meeting these specifications.

Operating temperature (IEC 60068-2-1, IEC 60068-2-2)	–40 to 70 °C
Storage temperature (IEC 60068-2-1, IEC 60068-2-2)	–40 to 85 °C
Ingress protection	IP 40
Operating humidity (IEC 60068-2-56)	10 to 90% RH, noncondensing
Storage humidity (IEC 60068-2-56)	5 to 95% RH, noncondensing
Maximum altitude	2,000 m
Pollution Degree (IEC 60664)	2

Shock and Vibration


To meet these specifications, you must panel mount the system and use a backshell kit or shielded cable to protect the connections. Use the NI 9940 backshell for the NI 9205 with spring terminal and a 37-pin shielded cable or the NI 9933 backshell for the NI 9205 with DSUB.

Operating vibration	
Random (IEC 60068-2-64)	5 g _{rms} , 10 to 500 Hz
Sinusoidal (IEC 60068-2-6)	5 g, 10 to 500 Hz
Operating shock (IEC 60068-2-27)	30 g, 11 ms half sine, 50 g, 3 ms half sine, 18 shocks at 6 orientations

Electromagnetic Compatibility

This product is designed to meet the requirements of the following standards of EMC for electrical equipment for measurement, control, and laboratory use:


- EN 61326 EMC requirements; Industrial Immunity
- EN 55011 Emissions; Group 1, Class A
- CE, C-Tick, ICES, and FCC Part 15 Emissions; Class A

 **Note** For EMC compliance, operate this device with shielded cables.

CE Compliance

This product meets the essential requirements of applicable European Directives, as amended for CE marking, as follows:

- 2006/95/EC; Low-Voltage Directive (safety)
- 2004/108/EC; Electromagnetic Compatibility Directive (EMC)

 **Note** For the standards applied to assess the EMC of this product, refer to the *Online Product Certification* section.

Online Product Certification

Refer to the product Declaration of Conformity (DoC) for additional regulatory compliance information. To obtain product certifications and the DoC for this product, visit ni.com/certification, search by module number or product line, and click the appropriate link in the Certification column.

Environmental Management

National Instruments is committed to designing and manufacturing products in an environmentally responsible manner. NI recognizes that eliminating certain hazardous substances from our products is beneficial not only to the environment but also to NI customers.

For additional environmental information, refer to the *NI and the Environment* Web page at ni.com/environment. This page contains the environmental regulations and directives with which NI complies, as well as other environmental information not included in this document.

Waste Electrical and Electronic Equipment (WEEE)



EU Customers At the end of their life cycle, all products *must* be sent to a WEEE recycling center. For more information about WEEE recycling centers and National Instruments WEEE initiatives, visit ni.com/environment/weee.htm.

电子信息产品污染控制管理办法（中国 RoHS）



中国客户 National Instruments 符合中国电子信息产品中限制使用某些有害物质指令 (RoHS)。关于 National Instruments 中国 RoHS 合规性信息，请登录 ni.com/environment/rohs_china。(For information about China RoHS compliance, go to ni.com/environment/rohs_china.)

Calibration (Analog Input)

You can obtain the calibration certificate and information about calibration services for this device at ni.com/calibration.

Calibration interval 2 years

¹ Absolute accuracy values at full scale on the analog input channels assume the device is operating within 70 °C of the last external calibration and are valid for averaging 100 samples immediately following internal calibration. Refer to the *Absolute accuracy formulas* for more information.

² Sensitivity is the smallest voltage change that can be detected. It is a function of noise.

³ The maximum voltage that can be applied or output between AI and COM without creating a safety hazard.

⁴ MAINS is defined as the (hazardous live) electrical supply system to which equipment is designed to be connected for the purpose of powering the equipment. Suitably rated measuring circuits may be connected to the MAINS for measuring purposes.

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