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Find the *National Instruments PXIe-4353* at our website: *Click HERE*

CAL-4353 Specifications

Français Deutsch 日本語 한국어 简体中文

ni.com/manuals

This document lists specifications for the CAL-4353. These specifications are typical for the range of 0 °C to 55 °C unless otherwise stated. The system must be allowed to warm up for 15 minutes to achieve the rated accuracy. All specifications are subject to change without notice. Visit ni.com/manuals for the most current specifications and product documentation.

Note NI PXIe-4353 module specifications are located in the *NI PXIe-4353 Specifications* document.

Electrical

Calibration interval .....1 year

R1.....4.2 Ω, max

R2.....4.2 Ω, max

R3.....3.5 Ω, max

R4.....3.5 Ω, max

R5.....0.7 Ω, max

Settling time.....2 seconds

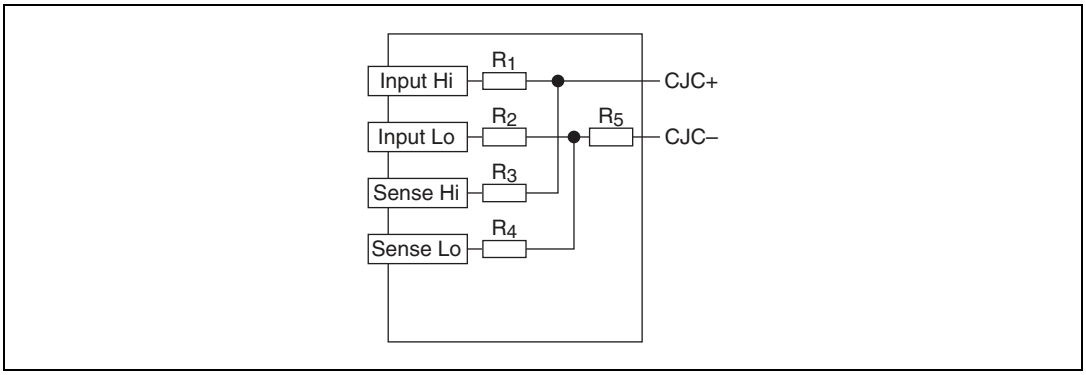


Figure 1. CAL-4353 in CJC Mode

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Protection

Caution Only connect the CAL-4353 inputs to a 4-wire resistance and 2-wire voltage calibrator. In some configurations TC+ and Sense+ or TC– and Sense– may be shorted internally, therefore the CAL-4353 is not protected against faults between TC+ and Sense+ or TC– and Sense–.

Note Only connect high impedance sources to Sense+/Sense–

Any input to GND.....±30 VDC

TC+ to TC–.....±30 VDC

Calibration

You can obtain the calibration certificate and information about calibration services for the CAL-4353 at `ni.com/calibration`.

Recommended warm-up time.....15 minutes

Calibration interval.....1 year

Physical Requirements

Dimensions.....15.28 × 12.95 cm
(6.02 × 5.10 in.)

Weight.....525 g (18.5 oz)

Environmental Specifications

Maximum altitude.....2,000 m (800 mbar)

Pollution Degree.....2

Indoor use only

Operating Environment

Ambient temperature range.....0 °C to 55 °C
(Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2. Meets MIL-PRF-28800F Class 3 low temperature limit and MIL-PRF-28800F Class 2 high temperature limit.)

Relative humidity range.....10% to 90%, noncondensing
(Tested in accordance with IEC-60068-2-56.)

Storage Environment

Ambient temperature range.....–40 °C to 71 °C
(Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2. Meets MIL-PRF-28800F Class 3 limits.)

Relative humidity range.....5% to 95%, noncondensing
(Tested in accordance with IEC-60068-2-56.)

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Shock and Vibration

Operating shock .....30 g peak, half-sine, 11 ms pulse
(Tested in accordance with IEC-60068-2-27.
Meets MIL-PRF-28800F Class 2 limits.)

Random vibration

Operating .....5 Hz to 500 Hz, 0.3 g_{rms}

Non-operating .....5 Hz to 500 Hz, 2.4 g_{rms}
(Tested in accordance with IEC-60068-2-64.
Non-operating test profile exceeds the requirements of MIL-PRF-28800F, Class 3.)

Safety

This product meets 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.

Electromagnetic Compatibility

This product meets the requirements of the following EMC standards for electrical equipment for measurement, control, and laboratory use:

- EN 61326-1 (IEC 61326-1): Class A emissions; Basic immunity
- EN 55011 (CISPR 11): Group 1, Class A emissions
- AS/NZS CISPR 11: Group 1, Class A emissions
- FCC 47 CFR Part 15B: Class A emissions
- ICES-001: Class A emissions

Note In the United States (per FCC 47 CFR), Class A equipment is intended for use in commercial, light-industrial, and heavy-industrial locations. In Europe, Canada, Australia and New Zealand (per CISPR 11) Class A equipment is intended for use only in heavy-industrial locations.

Note Group 1 equipment (per CISPR 11) is any industrial, scientific, or medical equipment that does not intentionally generates radio frequency energy for the treatment of material or inspection/analysis purposes.

Note For EMC declarations and certifications, and additional information, refer to the *Online Product Certification* section.

CE Compliance CE

This product meets the essential requirements of applicable European Directives as follows:

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

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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 model 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 the product life cycle, all products *must* be sent to a WEEE recycling center. For more information about WEEE recycling centers, National Instruments WEEE initiatives, and compliance with WEEE Directive 2002/96/EC on Waste and Electronic Equipment, visit `ni.com/environment/weee`.

电子信息产品污染控制管理办法 （中国 RoHS）



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(For information about China RoHS compliance, go to `ni.com/environment/rohs_china`.)

Where to Go for Support

The National Instruments Web site is your complete resource for technical support. At `ni.com/support` you have access to everything from troubleshooting and application development self-help resources to email and phone assistance from NI Application Engineers.

National Instruments corporate headquarters is located at 11500 North Mopac Expressway, Austin, Texas, 78759-3504. National Instruments also has offices located around the world to help address your support needs. For telephone support in the United States, create your service request at `ni.com/support` and follow the calling instructions or dial 512 795 8248. For telephone support outside the United States, visit the Worldwide Offices section of `ni.com/niglobal` to access the branch office Web sites, which provide up-to-date contact information, support phone numbers, email addresses, and current events.

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