

NI TB-4353

## Isothermal Terminal Block for the PXIe-4353



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# CAL-4353 Specifications

Français    Deutsch    日本語    한국어    简体中文  
[ni.com/manuals](http://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](http://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 $\Omega$ , max |
| R2 .....                   | 4.2 $\Omega$ , max |
| R3 .....                   | 3.5 $\Omega$ , max |
| R4 .....                   | 3.5 $\Omega$ , max |
| R5 .....                   | 0.7 $\Omega$ , max |
| Settling time .....        | 2 seconds          |

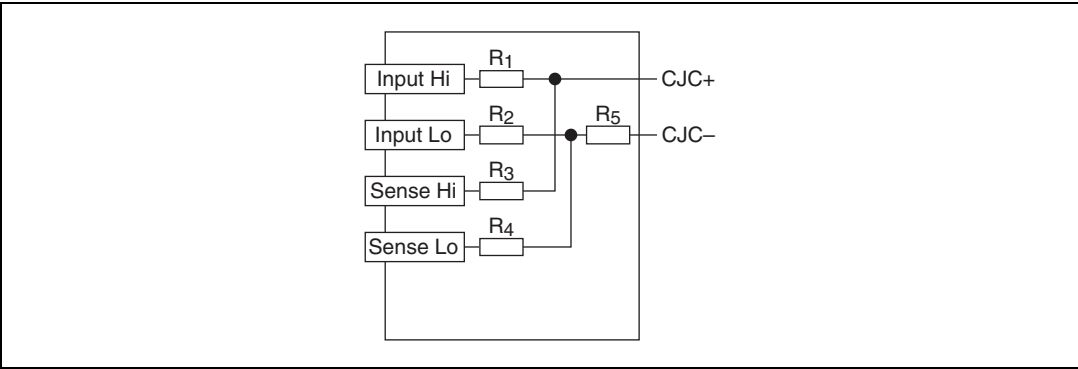


Figure 1. CAL-4353 in CJC Mode



## 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](http://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.)

## Shock and Vibration

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|                       |                                                                                                                                                                           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating shock ..... | 30 g peak, half-sine, 11 ms pulse<br>(Tested in accordance with IEC-60068-2-27.<br>Meets MIL-PRF-28800F Class 2 limits.)                                                  |
| Random vibration      |                                                                                                                                                                           |
| Operating .....       | 5 Hz to 500 Hz, 0.3 g <sub>rms</sub>                                                                                                                                      |
| Non-operating .....   | 5 Hz to 500 Hz, 2.4 g <sub>rms</sub><br>(Tested in accordance with IEC-60068-2-64.<br>Non-operating test profile exceeds the requirements<br>of MIL-PRF-28800F, Class 3.) |

## Safety

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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

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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

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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)

## Online Product Certification

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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](http://ni.com/certification), search by model number or product line, and click the appropriate link in the Certification column.

## Environmental Management

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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](http://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](http://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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## Where to Go for Support

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The National Instruments Web site is your complete resource for technical support. At [ni.com/support](http://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.

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