



National Instruments GPIB-RS232 Manual  
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# NI GPIB-Serial Converter Specifications

This document includes updated specifications for the GPIB-RS232/485/422. These specifications replace the specifications in the *NI GPIB Serial Converter Help*.

## Physical

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Dimensions..... 16.01 × 9.35 × 3.15 cm  
(6.3 × 3.68 × 1.24 in.)

Case material..... PC-ABS plastic

### Weight

RS232..... 192 g (6.75 oz)

RS485/RS422..... 196 g (6.875 oz)

GPIB cable ..... Type X2 shielded

## Connectors

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GPIB..... IEEE 488 24-pin

RS232..... DB-9 male

RS485/RS422..... DB-9 male

DC power ..... Coaxial plug (single output models)



5.5 mm outer diameter

2.1 mm inner diameter, female

11 mm length, center “+”

# Signaling

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GPIB .....	3-wire
RS232/RS485 .....	Baud rates up to 115.2 kb/s

# Power Requirements

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Input voltage range .....	9 to 28 VDC
Current consumption at 12 VDC .....	300 mA typical, 800 mA maximum
Fuse rating (service only) .....	Fast acting 2.2 A 125 V, surface mount

# 12 VDC Power Supply<sup>1</sup>

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Input voltage range .....	100 to 240 VAC, 47 to 63 Hz
Output .....	12 VDC, 1.25 A maximum

# Environment

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Maximum altitude.....	2,000 m (at 25° C ambient temperature)
Pollution Degree .....	2
Indoor use only	

# Operating Environment

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**Note** For the GPIB-RS232/485/422 to operate correctly over the entire specified ambient temperature range, stacking the product is not recommended.

Ambient temperature range .....	0 to 55° C (Tested in accordance with IEC-60068-2-1 and IEC-60068-2-2.)
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<sup>1</sup> Supplied with the GPIB-RS232/485/422.

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

## Storage Environment

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Ambient temperature range..... –20 to 70° C (Tested in  
accordance with IEC-60068-2-1  
and IEC-60068-2-2.)

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

## Shock and Vibration

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Operational shock ..... 30 g peak, half-sine, 11 ms pulse  
(Tested in accordance with  
IEC-60068-2-27. Test profile  
developed in accordance with  
MIL-PRF-28800F.)

Random vibration

Operating ..... 5 to 500 Hz, 0.3 grms

Nonoperating ..... 5 to 500 Hz, 2.4 grms  
(Tested in accordance  
with IEC-60068-2-64.  
Nonoperating test profile  
exceeds the requirements of  
MIL-PRF-28800F, Class 3.)

## Safety

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This product is designed to meet the requirements of the following  
standards of safety for information technology equipment:

- IEC 60950-1, EN 60950-1
- UL 60950-1, CSA 60950-1



**Note** For UL and other safety certifications, refer to the product label or visit [ni.com/certification](http://ni.com/certification), search by model number or product line, and click the appropriate link in the Certification column.



**Note** The protection provided by this equipment may be impaired if it is used in a manner not described in this document.

# Electromagnetic Compatibility

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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; Minimum 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 according to product documentation.

## CE Compliance

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

- 73/23/EEC; Low-Voltage Directive (safety)
- 89/336/EEC; Electromagnetic Compatibility Directive (EMC)



**Note** Refer to the Declaration of Conformity (DoC) for this product for any additional regulatory compliance information. To obtain 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.

## Waste Electrical and Electronic Equipment (WEEE)

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**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](http://ni.com/environment/weee.htm).

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