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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

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

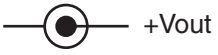
Connectors

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 “+”

NATIONAL INSTRUMENTS

Signaling

GPIB 3-wire

RS232/RS485 .....Baud rates up to 115.2 kb/s

Power Requirements

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[1]

Input voltage range .....100 to 240 VAC, 47 to 63 Hz

Output .....12 VDC, 1.25 A maximum

Environment

Maximum altitude.....2,000 m (at 25° C ambient temperature)

Pollution Degree 2

Indoor use only

Operating Environment

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.)

[1] Supplied with the GPIB-RS232/485/422.

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

Storage Environment

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

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

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`, 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

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

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`, search by model number or product line, and click the appropriate link in the Certification column.

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`.

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