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USB-6001

SAFETY, ENVIRONMENTAL, AND REGULATORY INFORMATION

NI USB-6001/6002/6003

NI Low-Cost DAQ USB Device

This document includes compliance precautions and connection information for the NI USB-6001/6002/6003.



Note The guidelines in this document are specific to the NI USB-6001/6002/6003. The other components in the system might not meet the same ratings. Refer to the documentation for each component in the system to determine the safety and EMC guidelines for the entire system.

Safety Guidelines



Caution Do *not* operate the NI USB-6001/6002/6003 in a manner not specified in the user documentation. Product misuse can result in a hazard. You can compromise the safety protection built into the product if the product is damaged in any way. If the product is damaged, return it to National Instruments for repair.



Hot Surface This icon denotes that the component may be hot. Touching this component may result in bodily injury.

Safety Voltages

Connect only voltages that are within these limits.

V terminal to C terminal 30 V maximum, Measurement Category I

Measurement Category I is for measurements performed on circuits not directly connected to the electrical distribution system referred to as MAINS voltage. MAINS is a hazardous live electrical supply system that powers equipment. 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 system to signals or use for measurements within Measurement Categories II, III, or IV.

Electromagnetic Compatibility Guidelines

This product was tested and complies with the regulatory requirements and limits for electromagnetic compatibility (EMC) stated in the product specifications. These requirements and limits provide reasonable protection against harmful interference when the product is operated in the intended operational electromagnetic environment.

This product is intended for use in industrial locations. However, harmful interference may occur in some installations, when the product is connected to a peripheral device or test object, or if the product is used in residential or commercial areas. To minimize interference with radio and television reception and prevent unacceptable performance degradation, install and use this product in strict accordance with the instructions in the product documentation.

Furthermore, any modifications to the product not expressly approved by National Instruments could void your authority to operate it under your local regulatory rules.



Caution To ensure the specified EMC performance, operate this product only with shielded cables and accessories.

Preparing the Environment

Ensure that the environment you are using the NI USB-6001/6002/6003 in meets the following specifications.

Operating temperature

(IEC 60068-2-1 and IEC 60068-2-2) 0 to 45 °C

Operating humidity (IEC 60068-2-56) 5 to 95% RH, noncondensing

Pollution Degree (IEC 60664) 2

Maximum altitude 2,000 m

Indoor use only.



Note Refer to ni.com/manuals for complete specifications.

Power Requirements



Caution The protection provided by the NI USB-6001/6002/6003 device can be impaired if it is used in a manner not described in the user documentation.

From USB, 4.75 to 5.25 VDC <500 mA

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