

FINDINGS LETTER on the Learning Tool model ADALM1000 for CE Safety Marking (LVD)

January 2, 2015

Analog Devices, Inc.
804 Woburn St.
Wilmington, MA 01887

Attention: Mr. Robin Getz

Subject: Analog Design Kit, model ADALM1000, USB 2.0 Bus powered, intended for use in the training of Students in the Development of Electronic Circuits.

Dear Robin,

This Findings Letter summarises the results of our safety compliance audit of your product to determine compliance with the applicable requirements for CE Marking the product under the European Union Low Voltage Directive (LVD).

The applicable requirement is:

EN 60950-1 - Safety Requirements for Information Technology Equipment, Part 1: General Requirements.

We reviewed the construction and intended use of the ADALM1000 Module Kit, including the associated software. The Module Kit comprises the following items:

- Analog Devices model; ADALM1000 Module.
- USB Peripheral Cable (Type A to Micro-B)
- Web based operating software from Nonolith Labs.

It is recommended that the following statements (amend as required) are included in the Instructions and/or stated on the applicable Web page:

- A. The Subject Active Learning Module, is intended for use as an Educational Training tool by engineering students.
- B. Specifications:

Physical Size: Approx. 6.0 cm W by 9.5 cm D by 2.1 cm h (including rubber feet).


Weight: 66 grams (2.6oz)


DC Power Input: USB 2.0 Host Port (5Vdc 0.5A).

Environmental Temperatures: Operating: 0°C to +40°C; Storage: -40°C to +60°C

Operating Humidity: 10% to 90% (non-condensing).

The following requirements apply to the construction of the Module and associated product markings:

1. The transparent plastic Upper and Lower panels is Flammability Rated UL94-HB minimum.
2. The Printed Circuit Board is Flammability Rated UL94V-0. Note: Found to be in compliance, with PCB marked with UL Recognition mark.
3. The Module is marked with manufacturer's Name "Analog Devices" and "ADALM1000". Note: This item is in compliance.
4. The international USB symbol  is marked adjacent the USB I/O port. Note: This item is in compliance.

5. The marking symbol for the WEEE Directive  is marked on the product. This symbol indicates that the User must not discard this electrical/electronic product in domestic household waste. Note: This item is in compliance
6. The CE Marking **CE** . Note: This item is in compliance.
7. Identification of connector pins: CH A, CH B, 2.5V, 5.0V and GND. Note: This item is in compliance.

Construction Review/Testing

1. The 5Vdc USB supply circuit (from a Personal Computer) is protected against over-currents and short-circuits by the inherent USB Specification (500mA for USB 2.0). The maximum current input (at 5Vdc) was measured at 0.50A, which is equal to the nominal 0.50A maximum output of a USB 2.0 Host Port. Note: This test was performed using the resistors supplied by Analog devices, generating 5Vdc 41mA square waves in both channels
2. The maximum temperature of the accessible surfaces of the module was recorded at 34⁰C at a Room Ambient of 25⁰C, which is much less than the maximum rated limit of 95⁰C for accessible plastic parts.

It is recommended that the Instructions or the applicable Web page include the following regulatory compliance information:

Compliance to European Union Directives

If this product has the CE Marking **CE** , it is approved for distribution within the European Union. It has been designed and tested to meet the Electromagnetic Compatibility (EMC) Directive and the Low Voltage Directive (LVD).

Applicable Standards:

EMC Directive:

EN 55022:2010 for Emissions

EN 55024:2010 for Immunity

Low Voltage Directive:

EN 60950-1: 2006+A12

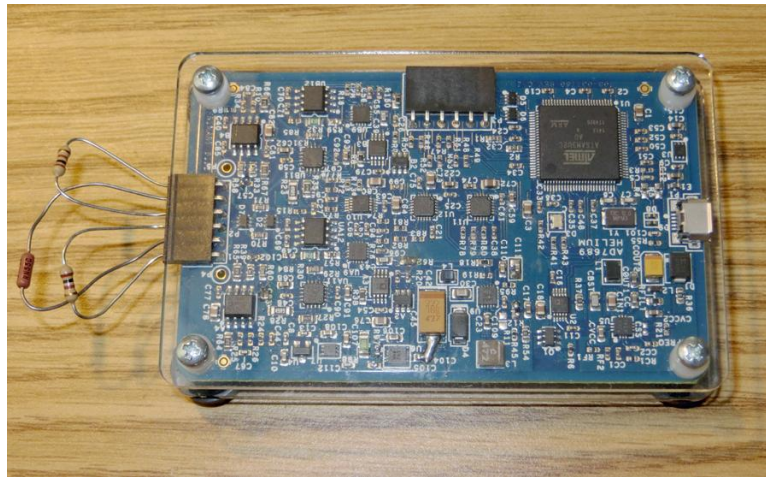
Please note that any software provided with the Module shall be in a national language(s) which is acceptable in the country in which the equipment is to be used.

Yours truly,

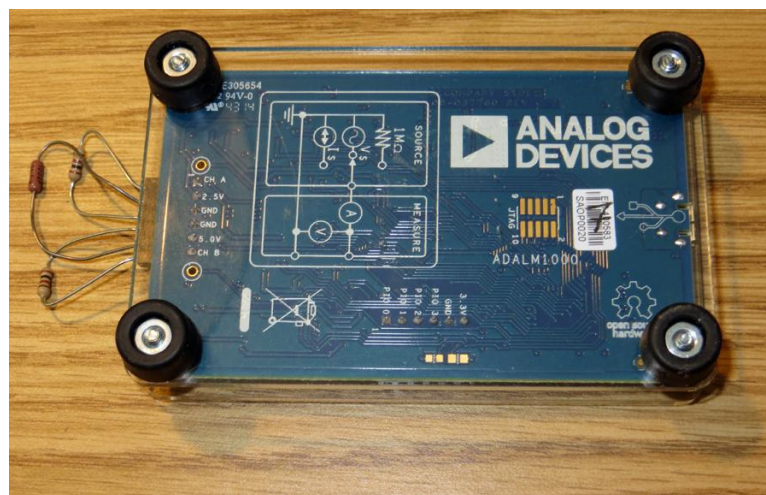


John Itty
Technical Manager

Attachment 1



Top View



Bottom View



USB 2.0 Cord