



# ActiSleep Monitor Technical Information



The ActiGraph ActiSleep monitor collects and records physical activity and step data. ActiGraph is unaware of any hazard posed by the device during proper operation. Since the ActiSleep monitor is a combination of many different electronic and mechanical parts, if it is disassembled or broken, there could be smaller pieces dislodged.

## Detailed Breakdown

The outside case is made of polycarbonate plastic material. There is no access to internal parts without removal of four screws located on the back of the ActiGraph and through the access port to the USB connector.

The battery is a single cell prismatic Lithium Ion or Lithium Polymer (3.7 V).

The Printed Circuit Board assembly is made up of various electronic components:

- PCB – (FR-4), and Tin Plated Surface Solder Mask

- Components – SOIC, Surface Mount Capacitor and Resistors

- Lead Free Solder (Sn96.5/Ag3/Cu.5), used for component attachment

The ActiGraph cover is fastened with four #0-1/4" sheet metal screws.

Operating Temperature is -20°C to 60°C (-15°F to 125°F).

Charging and Storage Temperature is 0°C to 40°C (32°F to 100°F).

## Manufactured Standard

The ActiSleep monitor is manufactured according to the standards set forth in IPC-610 Revision "D", class II. Each device is put through an initial test procedure that includes: visual inspection, battery installation, current draw, memory test, and accelerometer calibration. The ActiGraph GT1M is an FDA cleared class II device.

## Regulatory Standards

ActiGraph declares that:

**USA:** This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

**CANADA:** This class B digital apparatus complies with Canadian ICES-003.

**EUROPE:** Equipment Human Activity Monitor; Model Number GT1M; In accordance with the following directives: 89/336/EEC The Electromagnetic Compatibility Directive and its amending directives have been designed and manufactured to the following specifications as established in harmonized standards: EN 61000-3-2/3-2, EN 55022: 1994 (A1+A2), and EN 55024.

## RoHS:

The ActiSleep monitor meets all minimum standards of the Directive 2002/95/EC of the European Parliament and of the council of 27 January 2003.