

- TROUBLESHOOTING -

BAT-1B		
CONDITION	CAUSE	SOLUTION
<ul style="list-style-type: none"> Red alarm light and audible alarm are present 	<ul style="list-style-type: none"> Alarm condition present Sensor plug disconnected Sensor is shorted Sensitivity control needs adjustment 	<ul style="list-style-type: none"> Correct low liquid level condition, or adjust sensor to proper liquid level Connect sensor properly Locate and correct short Turn sensitivity adjustment screw slowly counterclockwise just until alarm stops
<ul style="list-style-type: none"> Alarm light flashes and audible alarm sounds intermittently 	<ul style="list-style-type: none"> Battery is losing power 	<ul style="list-style-type: none"> Replace with fresh battery
<ul style="list-style-type: none"> No lights 	<ul style="list-style-type: none"> Power switch in the OFF position Defective battery 	<ul style="list-style-type: none"> Move power switch into the ON position Replace with fresh battery

- REPLACEMENT PARTS & ACCESSORIES -

When ordering parts or accessories use the following part numbers to ensure that you get the correct parts for your level alarm application.

<u>Number</u>	<u>Description</u>
51006	BAT-1B Level Alarm System (includes one 9-volt battery and Liquid Nitrogen Sensor Probe)
51006-1	Liquid Nitrogen Sensor Probe (with 60" wire)
51006-2	9-volt battery
51004-5	Wire Ties (for mounting sensor probe)
51004-6	Mounting Rod (for mounting sensor probe - 36")
51004-7	Velcro Hold-down

PRODUCT WARRANTY

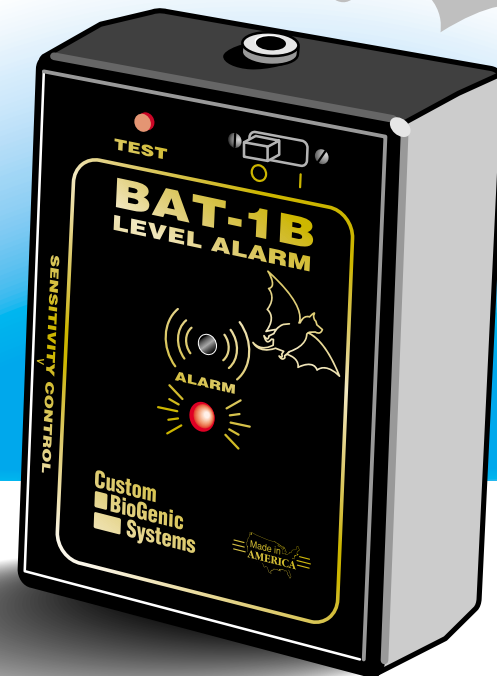
Custom Biogenic Systems, warrants all manufactured cryogenic equipment to be free from defects in workmanship and materials, for a period of three years.

Custom Biogenic Systems' liabilities under the warranty shall be limited to correcting or replacing the defective workmanship or materials. A claimant under the warranty must notify Custom Biogenic Systems within ten (10) days after discovery of the defect and immediately discontinue use of the defective equipment. Custom Biogenic Systems reserves the right, at their discretion, to correct the defect(s) in the field without return shipment to Shelby Township, Michigan.

This warranty does not cover defects on cryogenic equipment resulting from abusive handling and subsequent structural failure.

BAT-1B LEVEL ALARM

SET-UP AND TECHNICAL MANUAL



**Custom
BioGenic
Systems**

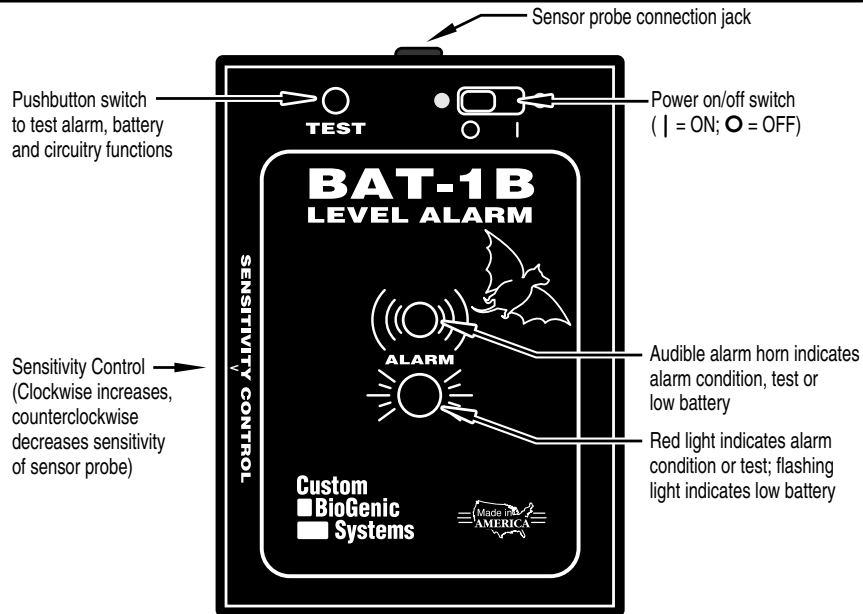
www.custombiogenics.com

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1.800.523.0072 • Ph: 586.566.7200 • Fax: 586.566.7205

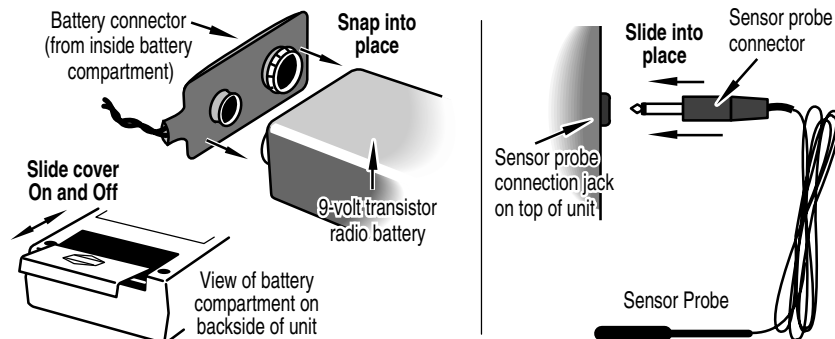


Leading the World with Innovative Cryopreservation Technology Solutions

- FRONT PANEL PARTS IDENTIFICATION -



- POWER CONNECTIONS -



- SPECIFICATIONS -

Power requirements: One 9-volt (transistor radio) battery
 Dimensions (LxWxH): 3 1/4 " x 1 1/2 " x 4 3/8 " or
 8.3cm x 3.8cm x 11.1cm
 Weight: 7 oz. or .196 kg (Including battery)

- SET-UP AND OPERATION -

This section represents a generic installation situation. Because the BAT-1B Level Alarm is so versatile many different installations are possible, however all should be based on the following instructions.

- 1) Remove sensor plug from connector terminal.
- 2) Using wire ties, firmly but gently attach sensor probe and wire to a component of the storage system in a location which will expose it to the liquid nitrogen. A "stiffening" rod or tube may be used to mount the sensor probe in an appropriate position.
- 3) Position the sensor so it accurately monitors the liquid level.

NOTE: It is extremely important for proper operation, that the sensor probe is positioned at the (liquid) level where an alarm condition would occur.

- 4) Mount the BAT-1B Level Alarm as desired. The level alarm does not need to be mounted in a level position, but should be readily visible. Also, do not close-in the BAT-1B unit creating a situation where the audible alarm cannot be heard.
- 5) Attach sensor probe connector to corresponding jack on top panel.
- 6) Connect battery to connector inside the battery compartment.
- 7) Move the power switch to the ON position.
- 8) If no alarm condition is occurring, push test button to check system.
- 9) When sensor probe has been submerged in liquid nitrogen for 5 minutes, turn sensitivity adjustment screw clockwise until alarm sounds.
- 10) Slowly turn sensitivity adjustment the other way just until alarm stops.
- 11) Double check installation, including all connections, to ensure accurate trouble free operation.

