

# OPERATING MANUAL MODEL 4383 AUDIBLE ALARM BOX



Ship Date \_\_\_\_\_  
Serial No. \_\_\_\_\_

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### Introduction

The Model 4383 Audible Alarm Box is designed to be used as an optional accessory to the Model 4083 Conductivity Meter.

Model 4383 features an audible alarm buzzer that will sound when measurements fall under or over the user set limits. The user simply enters the high and low limits into the Model 4083 Conductivity Meter via the front panel push button switches on the conductivity instrument. When the conductivity readings fall under or over the set limits, a red LED will light to indicate whether the solution being measured is below (low) or above (high) the set limits.

In addition to the Red LED light, the user has the option of an alarm buzzer that will sound to notify the user that the low or high set limit has been reached. The audible alarm buzzer can be turned ON or OFF by a toggle switch on the front panel.

When the audible alarm buzzer is disabled, then only the red LED(s) will light to indicate when the solution has reached the user High or Low set limits. A green LED light will stay lit when the solution being measured is within the user set limits.

The audible alarm box requires no batteries. Simply plug the cable (included with the alarm box) into the 8 pin Green Terminal Block Connector located on the rear panel of the Model 4083 Conductivity instrument and the 6 pin plug on the opposite end of the cable into the Alarm Box.

### Specifications

Enclosure Size:	4.6" x 2.7" x 1.3"
Enclosure Color & Material:	Bone / ABS plastic
Cable & Connectors:	One (1) meter cable with 2 plugs. A 6 pin plug at one end followed by an 8 pin plug on the opposite end. Note: Longer cables available by special order.
Buzzer Sound Pressure Level:	90 dB min. @ 12 VDC
Power:	No battery required; simply plug into EC Meter – 4083.
Environmental Limits:	Temperature: 5°C to 45°C Humidity: 10% to 90% non condensing

## **Install Instructions**

1. Plug the circular 6 pin Plug on the Cable to the back side of the Model 4383 Alarm Box. Be careful to line up the pins on plug with the 6 holes on the connector.
2. Plug the Green rectangle 8 pin plug into the green connector on the back side of the 4083 EC Meter. Make sure to properly line up the pins on the connector with the pin receptacles on the green 8 pin rectangle plug.
3. The Alarm box is now connected to the Conductivity Meter.

## **Entering Set Limits**

1. Power on Model 4083 Conductivity instruments and allow instrument to perform its Auto Zero check which requires about 8 seconds to complete.
2. Press [X] Parameter key 8 times until "Disable All Alarms" displays.
3. Press [V] No. Display will now prompt user to Set Alarm Limits.
4. Press [^] Yes. Set Low Alarm will display.
5. Press [^] Yes. Next, choose Range by pressing the [^] or [V] keys.
6. Press [X] Parameter key to Save the Range.
7. Press [^] or [V] keys to set the Low Conductivity set point.
8. Press [X] Parameter key to Save the Low set point.
9. Next the display will prompt the user to set the High set point.
10. Follow prompts to set High limit set point and press the [X] Parameter key to Save.

Low and High Limits are now set. When Conductivity of the solution falls below the Low set limit or exceeds the High set limit, the LED indicators will change from Green (in Limits) to Red.

If the toggle switch is set to OFF, no alarm will sound if the Conductivity of the solution reaches the high or low set limits.

To have the buzzer alarm sound when measurements reach the set limits, push the toggle switch UP, towards the words *Audible Alarm*.

## **Disable Alarm Set Limits**

To disable the alarm set limits, press the [X] Parameter key 8 times until "Disable All Alarms" is displayed. Press [^] for Yes to disable.

## **Change Alarm Set Limits**

To change the alarm set limits, press the [X] Parameter key 8 times until "Disable All Alarms" is displayed. Press [V] for No and then [^] for Yes to change Alarm set limits. Press [^] key to change the Low Conductivity set point. Allow a few seconds for the menu to prompt user to save the new limit by pressing the [X] Parameter key to Save the new set limit. Continue to follow menu prompts if a change is desired to the high set limit and then allow a few seconds for the display to prompt the user to Save the new high set limit by pressing the [X] Parameter key to Save the change.

**Remote Power Off**

A Red Push Button switch located on the rear panel of the Alarm Box (next to the cable output) will remotely turn the power ON or OFF to the Model 4083 Conductivity instrument. When the Model 4083 Conductivity instrument is powered OFF and the Alarm box is connected, a red LED will light to indicate that power is off to the Alarm Box and the EC Meter.

METER POWER OFF	=	RED L.E.D. INDICATOR LIGHTS
OUT OF LIMITS (LOW)	=	RED L.E.D. INDICATOR (LEFT SIDE LIGHTS)
OUT OF LIMITS (HIGH)	=	RED L.E.D. INDICATOR (RIGHT SIDE LIGHTS)
IN LIMITS	=	GREEN L.E.D. INDICATOR (MIDDLE L.E.D. LIGHTS)
TOGGLE SWITCH	=	2 POSITION. UP = ALARM BUZZER ON DOWN = ALARM BUZZER OFF
RED PUSH BUTTON ON REAR PANEL	=	REMOTE POWER OFF. PUSH BUTTON WILL TURN POWER OFF TO THE EC METER & ALARM

**Maintenance**

- The Model 4383 Cell Switch Box requires no general maintenance.
- Occasional cleaning may be done with a damp cloth and a mild soap solution.
- Do *not* allow fluids to run inside the instrument case.

**Repair:**

If instrument requires repair, please contact Customer Service to obtain a R.A. #. Amber Science will *not* be responsible for any damage or loss caused by the Carrier.

- Insure package for declared value in case of damage or loss.
- Mark the Return Authorization Number obtained from Customer Service on the outside of shipping carton.
- Place a note or Packing List with your Name and Telephone Number on inside of the shipping carton.
- Amber Science will contact you, after receiving your item(s).

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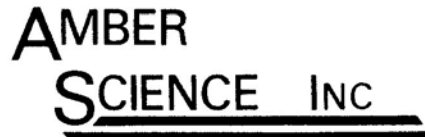
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## **WARRANTY**

AMBER SCIENCE, INC. warrants this product to be free from defects in material and workmanship for a period of one year from date shipped. Warranty will be allowed whenever possible, however all warranty claims will be reviewed by AMBER SCIENCE.

## **EXCLUSIONS FROM WARRANTY**

This warranty shall not apply to fuses, disposable batteries, (rechargeable type batteries, pH electrodes, temperature probes and conductivity cells are warranted for 90 days) or any product or part which have been subject to misuse, neglect, tampering, accident or abnormal conditions of operation.

## **LIMITED LIABILITY**

AMBER SCIENCE is pleased to offer suggestions on the use of this product; however, we have no control over its use or intended use. No representation or warranty, whether of merchantability, fitness for any particular purpose is made beyond the repair, replacement or refund of purchase price at the sole discretion of AMBER SCIENCE. In no event shall AMBER SCIENCE be liable for special or consequential damages for injury to person or property which may result from the use of this product. Users shall determine the suitability of this product for its intended applications before using and users shall assume all risk and liability whatsoever in connection therewith regardless of our suggestions as to applications or constructions.

## **RETURN OF ITEMS**

Authorization must be obtained from our customer service department before returning any item for any reason. When applying for authorization, please include any data regarding the reason the item is being returned. All items must be carefully packed as to prevent shipping damage and insured against loss and shipping damage. AMBER SCIENCE will not be responsible for any shipping damage or loss. Items being returned without prior authorization may not be accepted.

## **NOTE**

AMBER SCIENCE reserves the right to make changes in specifications, designs, construction and appearance of our products without notice.