

# WARRANTY

Salter Labs warrants the Dosimeter to be free from defects in workmanship and materials for a period of one year from the date of purchase. Check with your dealer for more details. This warranty is limited to the original purchaser of the Dosimeter. Any defective part or assembly will be repaired or replaced, at the sole discretion and determination of Salter Labs, if the unit has not been misused or tampered with during the period. Normal maintenance items and disposable components are not covered by this warranty. Shipping charges, if any, shall be paid by the purchaser.

THERE IS NO OTHER EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THE EXPRESS LIMITED WARRANTY AND TO THE EXTENT PERMITTED BY LAW AND ANY OTHER IMPLIED WARRANTIES ARE EXCLUDED. THIS WARRANTY DOES NOT COVER PROVIDING A LOANER DOSIMETER, COMPENSATING FOR COSTS INCURRED FOR DOSIMETER RENTAL, OR FOR LABOR COSTS INCURRED IN REPAIRING OR REPLACING A DEFECTIVE PART(S).

Thank you for selecting the Salter Labs Dosimeter. Salter Labs is an innovative, industry-leading manufacturer of respiratory care devices. Please contact your local Salter Labs dealer for information about additional products.



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## Dosimeter

Model 0700/0710/0711  
0720/0730/0731

## Operating Instructions



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# IMPORTANT SAFEGUARDS

 **READ ALL INSTRUCTIONS BEFORE USING**

When using this electrical device, basic safety precautions should always be followed, including the following precautions.

## WARNING

- Use this device only for its intended use as described in this manual. Use only with nebulizers supplied by Salter Labs. Contact your local dealer to obtain additional Salter Labs nebulizers.
- Never operate this device if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the device to a service center for examination and repair.
- Keep the power cord away from heated surfaces.
- Never drop or insert any object into any opening or hose.
- Do not tamper with or attempt to repair the device. There are no user serviceable parts inside the unit. Except for instructed user maintenance, all device servicing must be performed by a Salter Labs authorized service center.

# SPECIFICATIONS

Specifications and appearance are subject to change without notice.

Dimensions:	25.2 cm L x 22.1 cm W x 13.5 cm H (9.9 in L x 8.7 in W x 5.3 in H)
Weight:	1.6 kg (3.5 lb)
Compressed Gas Input:	7 lpm min. through a Salter Labs nebulizer at 410 kPA/60 psi max.
Dose Time:	0.1 to 9.9 seconds (± 5%)
Electrical	
AC Adapter	100-240 VAC, 47-63 Hz, 0.5 A
Dosimeter	12 VDC, 0.5 A
Fuse:	1 A, 250 V, fast acting, 5x20 mm
Temperature:	
Operating	10 to 40° C (50 to 104°F)
Storage	-40 to 70°C (-40 to 158°F)



Type B

IPx0



# ACCESSORIES

<b>Part #</b>	<b>Description</b>
8900	Nebulizer Kit
0700-02	Power Pak, 115 VAC (AC adapter & cord)
0710-02	Power Pak, 230 VAC, European (AC adapter & cord)
0711-02	Power Pak, 230VAC, UK (AC adapter & cord)
0700-03	Remote Trigger Switch
0700-04	AC Adapter, 100-240 VAC, 12 VDC
0700-05	Air Hose, 5 ft (1.5 m) (Yellow) (CGA-1160)
0700-06	Air Hose, 10 ft (3.0 m) (Yellow) (CGA-1160)
0700-07	Air Hose, 15 ft (4.6 m) (Yellow) (CGA-1160)
0700-08	Power Cord, North America, 6 ft (1.8 m)
0710-08	Power Cord, Europe, 8 ft (2.5 m)
0711-08	Power Cord, UK, 8 ft (2.5 m)
0720-05	Oxygen Hose 5 ft (1.5 m) (Green) (CGA-1240)
0720-06	Oxygen Hose 10 ft (3.0 m) (Green) (CGA-1240)
0720-07	Oxygen Hose 15 ft (4.6 m) (Green) (CGA-1240)

# MAINTENANCE

## FUSE REPLACEMENT

If the Dosimeter does not operate when the POWER switch is in the I (on) position, first confirm that the power cord is plugged into the AC adapter and a wall outlet. Then check that the DC power plug from the AC adapter is firmly connected to the POWER INPUT connector on the rear of the Dosimeter.

Perform the following steps to replace the fuse.

1. Press the POWER switch to the O (off) position. Unplug the power cord from the wall outlet.
2. Using a coin or screwdriver, turn the cap on the fuseholder counterclockwise until it releases.
3. Discard the used fuse. Insert a new fuse into the fuseholder cap.
4. Push the fuseholder cap in and turn clockwise to lock it into position.

## SERVICE

Except for instructed user maintenance, all device servicing must be performed by a Salter Labs authorized service representative. There are no user serviceable parts inside the unit. Contact your Salter Labs dealer or authorized service center if your unit needs repair.

**WARNING** – Do not tamper with or attempt to repair the device. Refer servicing to qualified service personnel.

# INTRODUCTION

The Salter Labs Dosimeter generates an accurately timed burst of compressed gas to deliver aerosol medication or antigens (such as methacholine or pollen in solution) for bronchial provocation challenges. Used in conjunction with a nebulizer supplied by Salter Labs, you can be assured that you are using the finest quality products for respiratory therapy nebulization.

The small size and weight of the Dosimeter allow it to be easily carried and placed on the treatment table. The Dosimeter can be triggered either by a manual switch located on the front panel or by a remote switch supplied with the unit. A small AC to DC power adaptor is supplied to power the Dosimeter. A 5 foot color-coded gas hose (Yellow for air) is provided to connect the Dosimeter to the gas supply. Longer lengths may be ordered if needed.

The Dosimeter is also supplied with a nebulizer kit. The nebulizer attaches to the output connector located on the front of the device. A Salter Labs nebulizer should always be used for optimum performance. Contact your local dealer to obtain additional Salter Labs nebulizers.

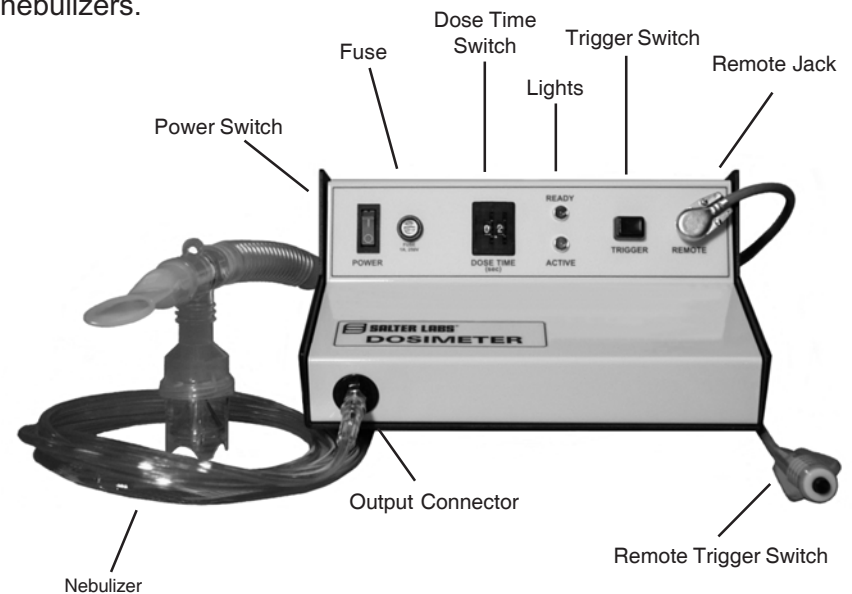


Figure 1 Front Panel

# SETUP AND OPERATION

## SETUP

1. Place the Dosimeter on a level, sturdy surface. Make sure you can reach the controls when seated. Press the POWER switch to the O (off) position.
2. Plug the barrel connector from the AC adapter into the POWER INPUT connector on the rear of the unit.
3. Attach the power cord to the AC adapter. Plug the other end of the power cord into a wall outlet.
4. If desired, plug the connector from the remote trigger switch into the REMOTE connector on the Dosimeter's front panel.
5. Connect one end of the hose to the COMPRESSED GAS INPUT connector on the rear of the Dosimeter.
6. Connect the other end of the hose to a gas (air or oxygen) source capable of delivering 7 lpm through the nebulizer.

**CAUTION** – The compressed gas source must not exceed 410 kPa / 60 psi pressure into the Dosimeter.

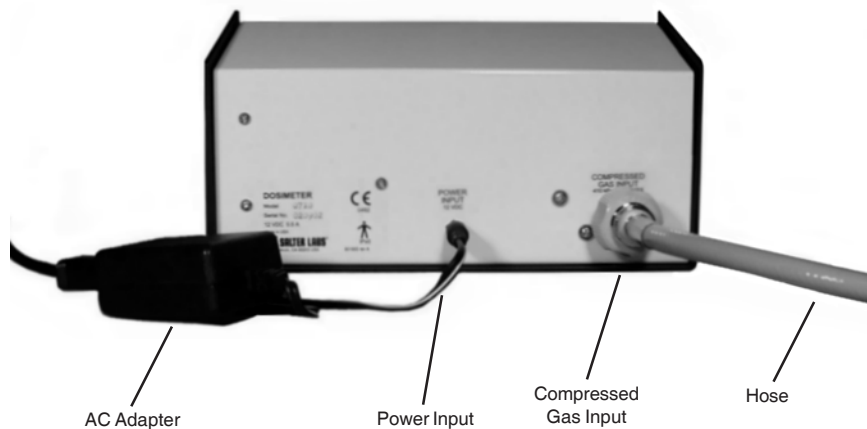


Figure 2. Rear Panel

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The Dosimeter is normally equipped to operate with compressed air (Yellow hose and CGA 1160 DISS threaded inlet connection). However, it may be configured to operate with compressed oxygen (Green hose and CGA 1240 DISS threaded connection) by changing the inlet fitting on the back of the Dosimeter. If using cylinders, the regulator must have the identical outlet connection for the gas being used. Threaded connections for air and oxygen are different and are not interchangeable. Do not force connections.

7. Unpack the Salter Labs nebulizer. Connect one end of the tubing to the Dosimeter's outlet.
8. Assemble the nebulizer according to its instructions. Make sure that the green cone has been placed into the nebulizer cup before assembling the top to the cup.  
**CAUTION** – Do not use a nebulizer if its green cone is missing. Utilize a new nebulizer if necessary.
9. Add the liquid medication to the top of the nebulizer using an eyedropper, premeasured unit dose, or ampoule.
10. Attach the mouthpiece to the nebulizer.
11. Connect the tubing to the bottom inlet on the nebulizer.

## OPERATION

1. Press the POWER switch to the I (on) position. The switch will illuminate, indicating that the Dosimeter is turned on. The READY light will also illuminate, indicating that the unit is operating and ready.
2. Set the desired dose duration on the DOSE TIME switch. The duration can be set from 0.1 to 9.9 seconds, selectable in 0.1 second increments.
3. Press either the TRIGGER switch on the front panel or the button on the remote trigger switch to activate the Dosimeter.
4. The ACTIVE light illuminates and the READY light turns off. Nebulization begins as the Dosimeter releases a timed pulse of compressed gas to flow to the nebulizer.
5. Nebulization continues until the time period set on the DOSE TIME switch expires. When the preset time has elapsed, the Dosimeter shuts off the gas flow to the nebulizer. The ACTIVE light then turns off and the READY light illuminates.
6. When treatment is complete, press the POWER switch to the O (off) position to turn the Dosimeter off. Remove and discard the nebulizer.

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