

#### CARELINC MEDICAL EQUIPMENT & SUPPLY APNEA MONITOR SET-UP CHECKLIST

Account #:	Branch:	
Patient:	Caregiv	/er:
Brand:	Model:	Serial #:
Apnea Alarm:	Low Hr Alarm:	High Hr Alarm:
	Installation	& Safety
Environmental and el	-	
	ord into monitor before plugging into	
	cord from wall before unplugging fro	
	ed in at all times except when cleaning	
		cable directed away from baby's head and not left dangling
Keep young children		
	of soap, lotion, and powder	
	point of most chest wall movement, n	
	vith alcohol, when to apply a drop of v	or bathing, internal rechargeable battery
Agree to 2411 use ext	Lept when under direct observation of	n battillig, internal rechargeable battery
	Care of N	lonitor
	eded and rinse well, air dry	
Clean electrodes dail		
	ectrode wires weekly with damp cloth	٦
Protect lead wires fro		
Battery charging proc		
Marking talanhana a	Parents Den	nonstrate
Working telephone a		
	ent cable, electrodes, belt, and charge , when electrodes lose effectiveness c	
Correct fit of belt	when electrodes lose effectiveness c	
	ludes who to call and what to do, Elec	tric Co., 911, etc.
	Teach	ing
Apnea monitor educa		
	lass or are enrolled in one	
Demonstrate and fee	l confident operating the monitor	
	Notice to	parents
instructions, monitor will ala been exceeded. The monito properly, call us to correct to Distributor and manufacture	arm when it senses that your child's hear r's sole purpose is to alarm so that you ca he problem or replace the unit. Your trea er make no claim or representation conce the success or failure of any treatment p	at they are in working order. When used in accordance with the t rate isn't within the parameters set or that the apnea delay has an take appropriate action. If this equipment doesn't operate atment using this equipment is determined by your physician. erning the effectiveness of this equipment in the treatment and performed with this equipment. We recommend you call your

Patient/Parent:	_ Date:
CareLinc Representative:	Date:

Account #: \_\_\_\_\_

# Apnea Monitor Alarms Responding to Alarms



www.carelincmed.com 888.810.5462

# Responding to Alarms

### **Patient Alarms**

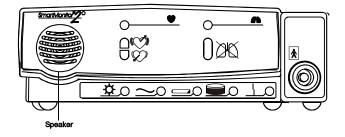
A Patient Alarm indicates that your baby's breathing or heart activity is outside the limits prescribed by your physician. The information in this section can help you respond appropriately to patient alarms. Read this section carefully. If you have any questions, please contact your dealer.

# Testing the Alarm

Before you use the monitor, test to see if you can hear the alarm in different rooms while there is noise in your house.

# Caution: Be aware that the alarm sound is very loud.

- Always keep the area in front of the speaker clear.
- Turn the monitor on (without the baby attached) to sound the alarm. Make sure you can hear the alarm in different areas of your home.
- If the alarm is not loud enough to hear around the home, ask your dealer for a Remote Alarm. This device will allow you to hear the alarm in a different room from where the monitor is located.



# If an Alarm Sounds

If an alarm sounds while you are monitoring your baby, <u>check your baby first.</u> Then follow the instructions below to respond to lights and alarms. Always check your baby's skin color. Is it normal? Always check to see if your baby is breathing. If your baby <u>is not</u> breathing, follow the Respond Like This instruction.

Light	Alarms	Check Baby's Condition	Respond Like This
Red Apnea and/or Low (Heart)	Intermittent (1 beep/sec)	Skin color is pale or blue. Baby <b>is not</b> breathing or is choking.	<ul> <li>Respond as instructed by your physician or in your <i>CPR</i> class.</li> <li>An <i>example</i> of your response could be as follows:</li> <li>Gently pat the baby. The baby may start breathing and correct the cause of the alarm on his/her own.</li> <li>If the baby does not start breathing start physical stimulation immediately.</li> <li>If the baby starts breathing, note it on your log sheet.</li> <li>Press the <b>RESET</b> button to reset any alarm lights.</li> </ul>
Red Apnea and/or Low (Heart)	Intermittent (1 beep/sec.)	Baby is responsive and is breathing. Color is good.	<ul> <li>Wait for a few seconds. Watch to see if the baby's breathing and color remain normal.</li> <li>If alarm continues, see section titled "<i>Reducing False Alarms</i>".</li> <li>Check the monitor to see which light is on. Note it on your log sheet.</li> </ul>
Red High (Heart)	Intermittent (2 beeps/sec.)	Baby is crying.	<ul> <li>If the baby is on breathing medications and gets frequent high heart rate alarms, please note alarm on your log sheet and call your physician or home care dealer.</li> </ul>
Red Loose Lead	Continuous	Baby is breathing and is responsive. Color is good.	<ul> <li>Check the connections between the electrodes, lead wires, patient cable, and the monitor.</li> <li>If something has come loose, reconnect it and press the <b>RESET</b> button. The alarm should stop.</li> <li>If the alarm continues, see section on <i>Performing a Functional Self Test</i>.</li> </ul>

Light	Alarms	Check Baby's Condition	Respond Like This	
Red Loose Lead	Continuous	Baby is breathing and is responsive.	If the monitor passed the Functional Self Test, turn off the monitor. Then, check the following items:	
		Color is good.	The <b>electrodes</b> – They should be clean and there should be no cracks on the surface.	
			The <b>baby's skin</b> – Make sure that where the electrodes are placed is clean and free from oil, lotions, perspiration.	
			The <b>electrode belt</b> – Make sure it is snug and is keeping the electrodes in place.	



Patient alarms cannot be silenced with the **RESET** button. The alarm will stop only when the patient signals are within the alarm limits.

# System Alarms

A System Alarm indicates that the monitor may not be functioning properly or at optimum capacity. The information in this section will help you respond appropriately to system alarms. When a SmartMonitor 2 system alarm occurs, one of the lights at the bottom of the front panel will come on.

If this light is on	And this condition exists	It means
Power	Continuous green light, no alarm	Normal operation. The green <b>power</b> indicator light will come on and stay on for as long as the monitor is on.
Charger	Continuous green light, no alarm	Normal operation. The green <b>charger</b> light will come on and stay on while the power cord/battery charger is plugged into an active outlet and connected to the SmartMonitor 2.
Low Battery	Flashing yellow light, continuous alarm	This is a warning that the battery voltage is very low and should be recharged soon. ( <i>See Charging the Battery</i> in this manual). Press the <b>RESET</b> button to temporarily silence the alarm. The alarm will resound in 2 minutes if the monitor has not been plugged in. The yellow light will continue to flash.
	Continuous yellow light, continuous alarm	This is a warning that the battery is too low for the SmartMonitor 2 to operate properly. The SmartMonitor 2 must be recharged. Turn the monitor off. Then, recharge the battery. (See Charging the Battery in this manual).
		If you do not reconnect the charger, the system will automatically shut down.

If this light is on	And this condition exists	It means
Memory Full	Flashing yellow light, continuous alarm	When the SmartMonitor 2 Memory Almost Full parameter is reached, the Memory Full light will flash. The alarm will sound continuously. (The alarm will sound only if your dealer programs your SmartMonitor 2 to do so at the 50% full or at 80% full). Press the <b>RESET</b> button to silence the alarm. The light will blink every second.
		Memory Almost Full is a warning condition. You can continue monitoring. Please contact your dealer to resolve the alarm.
Memory Full	Continuous yellow light, continuous alarm	SmartMonitor 2 memory is 100% full. Press the <b>RESET</b> button to silence the alarm.
		The alarm will sound only if your dealer programs your SmartMonitor 2 to do so.
		The light will stay on continuously. Then contact your dealer to resolve the alarm. (See also <i>Transferring the Monitor Memory</i> in this manual for more information).
Loose Lead	Continuous yellow light and continuous alarm	The yellow loose lead light and the alarm may sound continuously when there is a problem with any of the following:
		Lead wires
		Electrodes
		Electrode belt
		Patient cable, or
		• Connections between the baby's skin, and the electrodes, the lead wires, the patient cable, and the SmartMonitor 2.

If this light is on	And this condition exists	It means			
Loose Lead	Continuous yellow light and no alarm	If you correct the problem, the alarm will stop. However, the yellow light remains on until you press the <b>RESET</b> button.			
Power	Continuous green light, continuous alarm, with no other lights lit.	Check the display for error messages. If no error messages, the SmartMonitor 2 was turned off improperly causing a sibling alarm. To resolve: Press and hold the blue RESET button. Press and release the gray POWER button. Wait 2 seconds then release the RESET button.			
All	All lights are blinking and the alarm sounds for 3 seconds and then off for 1 second.	Check the display for error messages. If there is an error message, enter it in on your log sheet. Turn the monitor off and then back on. If the monitor functions normally continue to use the monitor.			

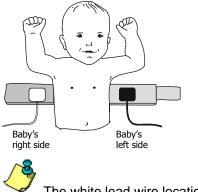
# **Reducing False Alarms**

Proper electrode placement will minimize false alarms.

Insure the electrodes are placed along the mid-line of the side, two finger widths below or lined up with the nipples.

- If using the black reusable electrodes with the Velcro belt, insure the belt is quite snug. Place the electrodes far enough apart so that when the belt is wrapped around the baby, the electrode will be located along the mid-line of the side, two finger widths below or lined up with the nipples.
- The skin should be clean and dry, if the skin is unusually dry you may add a few drops of moisture (water) to the baby's skin prior to electrode belt placement.
- When using the black reusable electrodes insure that the electrode surface is clean.

• The optional green (RL) electrode and lead wire may help reduce *EMI* interference. Place the green electrode along the outside of baby's upper thigh.



The white lead wire location is illustrated with a white electrode.



# PULMONARY DIAGNOSTICS APNEA SERVICE

(616)-391-3500 fax: (616)391-3657

Downtown Campus MAIL CODE 058 100 MICHIGAN NE GRAND RAPIDS MI 49503-2560

Home Care Company \_\_\_\_\_ City \_\_\_\_\_

If inpatient, what hospital? \_\_\_\_\_

Diagnosis		Atte	anding Phy	sician (First and Last I	Name)		Phone:		
•							Fax:		
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Patient Address			City	5	State Zip Code		County		
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Name of Guarante	or	Date of Bir	rth	Relationship to Pati	ient		Teleph	one	
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Social Security Nu	Imber	Employer			W	ork Telephone		Status □ Full Time □ Part Time	
Employer's Addres	55	1			Ci	ty		State Zip Code	
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or	Contract No.	If Blue Car	re Network	<, Primary Care Physic	cian Name				
BLUE CARE NETWORK (BCN)	Out of State?	If Yes, indi	icate Autho	prization Telephone No	o. and Clair	n Mailing Addre	255		
MEDICAID	Eligible Person			Recipient ID No.	Sc	ope	Case Number		
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						Group and/or Policy Number(s)			
	Primary Insurance Company or H	МО	Phone		Policy Holder's Name				
OTHER	Address				Policy Holder's Social Security No.				
INSURANCE					Group an	d/or Policy Nur	nher(s)		
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Current Medicatior	ns 🗌 Reglan 🗌 Theophylline 🛽	Other							
COMMENTS									
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## PAYMENT AGREEMENT

- 1. If I or the patient for whom I am signing have insurance through Michigan Blue Cross/Blue Shield, Medicare, Medicaid or any third party, or automobile no-fault carrier, I agree to the following terms:
  - A. I certify that I want Spectrum Health to bill my insurance carrier and request that any payments from insurance be made directly to Spectrum Health Downtown Campus and certify that the information given by me in applying for payments is correct.
  - B. I authorize Spectrum Health to release information contained in my patient records, to my insurance company(s) including, as applicable:
    - information about communicable diseases and serious communicable diseases and infections, as defined by statute and Michigan Department of Public Health Rules (which include venereal disease "VD", tuberculosis "TB", hepatitis B, human immunodeficiency virus "HIV", acquired immunodeficiency syndrome "AIDS", and AIDS related complex "ARC").
    - alcohol and drug abuse treatment information protected under the regulations in 42 Code of Federal Regulations, part 2.
    - mental health treatment records, psychological services and social services information including communications made by me to a social worker or psychologist.
  - C. I assign to Spectrum Health all rights to benefits, insurance proceeds, settlement payments or judgements to which I may be entitled for the services rendered to me by Spectrum Health or any physicians or other persons employed by Spectrum Health. I also give Spectrum Health the right to intervene in any lawsuit or other action brought to me, or on my behalf, to collect any amounts due to Spectrum Health for services rendered to me.
- 2. I understand that any amounts not paid by my insurance are my responsibility.
- 3. I understand that the Home Medical Equipment Provider, whose apnea monitor we are renting, is providing services in conjunction with the Pulmonary Diagnostics Lab of Spectrum Health - Downtown Campus. I authorize the release of information contained on Payment Agreement/Registration Form (X01567) to Spectrum Health - Downtown Campus Pulmonary Diagnostics as a consultant in the management of the patient. Spectrum Health may release information contained in my Pulmonary Diagnostics record to my home medical equipment provider.

**Note:** Spectrum Health authorizes those Home Medical Equipment Providers whose clients wish to consult with or have services provided by Spectrum Health's-Downtown Campus Pulmonary Diagnostics Lab to obtain all of the information and signatures required on this form.

The above Payment Agreement has been explained to me and I agree that I understand it.

# Apnea Monitor Lead Placement Guide Setting Up for Respiration & Heart Monitoring



www.carelincmed.com 888.810.5462

# Setting Up the SmartMonitor 2 for Respiration and Heart Monitoring

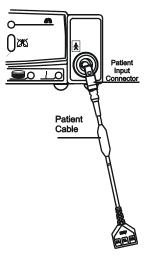
After you unpack your SmartMonitor 2 and make sure you have all the parts, follow the steps listed below to set it up:

#### Step 1: Set the SmartMonitor 2 on a Clean, Flat Surface.

- Be sure the speaker is not blocked.
- To avoid interference, be sure that no other electrical appliances are within three feet of the unit.
- Make sure the monitor is close enough to connect to the baby comfortably.

#### Step 2: Connect the Patient Cable to the SmartMonitor 2.

- Insert the round end of the patient cable into the bottom round connector found on the front of the SmartMonitor 2.
- Line up the notch on the connector and push until you feel the connector snap into place.
- To remove the patient cable, grasp the patient cable at the base of the patient input connector and gentle pull back. Do not grasp and pull the patient cable to remove from the SmartMonitor 2.



#### Step 3: Connect the Lead Wires to the Patient Cable.

The larger end of the patient cable has three openings, marked *LA* (black), *RL* (green), and *RA* (white).

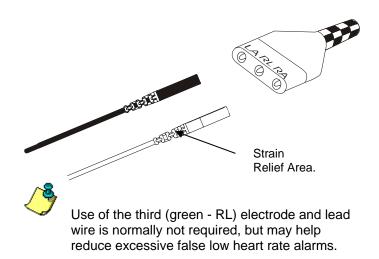
Take the **white** lead wire and insert it into the opening marked **RA**.

Take the **black** lead wire and insert it into the opening marked **LA**.

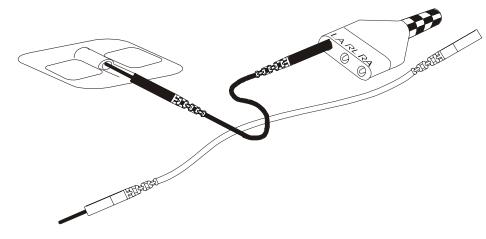
Firmly push each lead wire in until the socket snaps into place.



When you need to remove a lead wire, grasp and pull at the strain relief area located near the connecting tip. **Do not** grasp the wire.



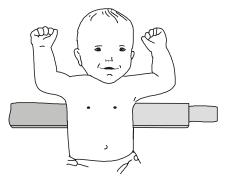
Step 4: Connect the Lead Wires to the Electrodes.



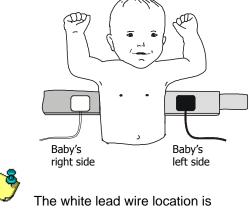
- Insert the black LA lead wire into one electrode.
- Insert the white **RA** lead wire into the other electrode.
- Make sure the metal tips of the lead wires are fully inserted into the electrodes.

Step 5: Attach the Electrodes to the Infant Belt.

- Place the electrode belt on a flat surface.
- Lay your baby on the belt so the belt is aligned with the baby's nipples (see illustration).
- Place the electrodes, Velcro-side down, on either side of the belt as follows:
  - Place the electrode with the white lead wire on the baby's right side.
  - Place the electrode with the black lead wire on the baby's left side.



- Place the electrodes far enough apart so that when the belt is wrapped around the baby, the electrode will be located along the mid-line of the side just below or lined up with the nipples.
- Be sure the lead wires and patient cable are leading down and away from the baby's face and neck (see illustration).

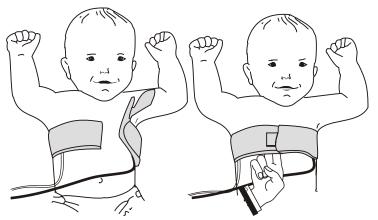


illustrated with a white electrode.

Step 6: Wrap the Electrode Belt around the Baby.

Wrap the belt around the baby's chest and fasten it with the Velcro tab.

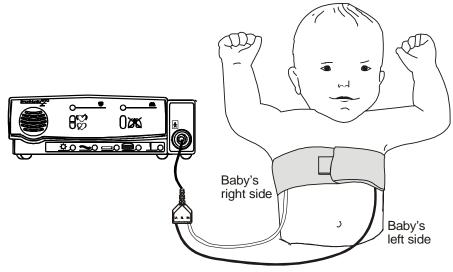
The belt should be snug enough so that you can only insert two of your fingers (with your hand lying flat against baby) between the belt and the baby.





With newborns and very small babies, you may need to shorten the belt by cutting off a part of the end. Be sure to leave enough room to fasten the belt securely.

These steps describe only one method for electrode placement and positioning. Your health care professional may show you another method.



Insert the black LA lead wire into the Velcro side of one electrode. Place the electrode with the black lead wire on the baby's left side.

Insert the white RA lead wire into the Velcro side of one electrode. Place the electrode with the white lead wire on the baby's right side.

#### **Disposable Self Adhesive Electrodes**

Follow the steps below if you are using disposable electrodes.

- Attach lead wires to the Self Adhesive Electrodes if not pre-attached.
- Insure the infant's skin is clean and dry.
- Place the electrode with the **white** lead wire on the baby's **right** side, along the mid-line of the side, two finger widths below or lined up with the nipples.
- Place the electrode with the **black** lead wire on the baby's **left** side, along the mid-line of the side, two finger widths below or lined up with the nipples.
- An electrode belt is not needed when using disposable electrodes.



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Use of the third (green - RL) electrode and lead wire is normally not required, but may help reduce EMI interference. Place the green third electrode along the outside of baby's upper thigh. (Not on the inside of the thigh, the inside can cause discomfort).

Do not use oils, lotion, or powder on the area of skin that the electrodes will be placed.



#### Step 7: Connect the Power Cord/Battery Charger.

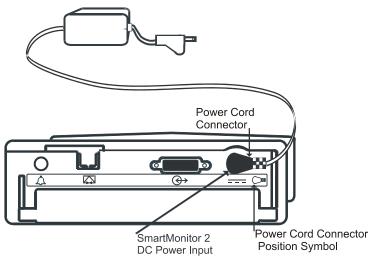
- Insert the round connector of the power cord/battery charger into the socket on the back panel of the SmartMonitor 2 (see illustration).
- Line up the notch on the connector.
- Push until the connector is fully inserted.
- Plug the power cord/battery charger into a power outlet. The green charge light on the monitor will now come on.

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When the SmartMonitor 2 is not being used portably, keep the power cord/battery charger connected and plugged into an AC outlet at all times. Insure that the AC outlet has been installed to conform to the National Electrical Code (NEC) i.e., a licensed electrician. The batteries cannot be overcharged. The green charger light stays on as long as the charger is connected.

The Power Cord Connector must be plugged into the SmartMonitor 2 DC Power Input as shown in the illustration to the right. The Power Cord Connector can only be inserted as shown to the right.

Do NOT use device if power cord is damaged. Contact your dealer.



	OXYGEN CALL LIST
Monday	Tuesday Wednesday Thursday Friday
Automatic Stop	all Weekly Every 2 Weekly Call 6 months Call Annually

(except MCR 3-5 yr customers, identify who called in the order and how much they have left)

#### Note:

1. Customers must be aware of their delivery day. They should call before noon on the business before their delivery day. We should not have "will call us" customers! After the first month, homefill **and** night time customers **with** internal filter concentrators will be called and have a home PMI at least every 6 months. Night time customers **without internal filters** must have a home PMI annually.

2. When making oxygen calls, if a customer only has 1-2 empty tanks, see if they have enough full tanks to last them another week.

3. Check on all repeat supplies with every 6 month / annual check. I.e. neb kits and filters, cpap / bipap supplies, etc

4. **Confirm** address, insurance and physician information with every supply order.

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## **OXYGEN CALL LIST**

Directions to Home / Special Instructions:

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