

# PHILIPS

**G3 Training Module**

**PHILIPS**

RESPIRONICS

Sleepware G3

***LoFlo***

***Plug & Play Capnography for Alice PSG Technical***

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\* *Note:* Screenshots are from the Sleepware G3 Software and Online Help.  
\* *Disclaimer:* Screenshots may change based on software version

## WHAT IS CAPNOGRAPHY?

### Capnography is:

- Used in diagnosis of complex patients
  - Obesity Hypoventilation Syndrome
  - COPD

*We've made it simple as a USB plug!*



### REORDER NUMBER

1101087	<b>Alice, LoFlo starter kit</b> (LoFlo, sampling line 10 pk, Alice LoFlo USB cable, and cannulas)
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## SETTING UP LOFLO FOR ALICE

### System Requirements

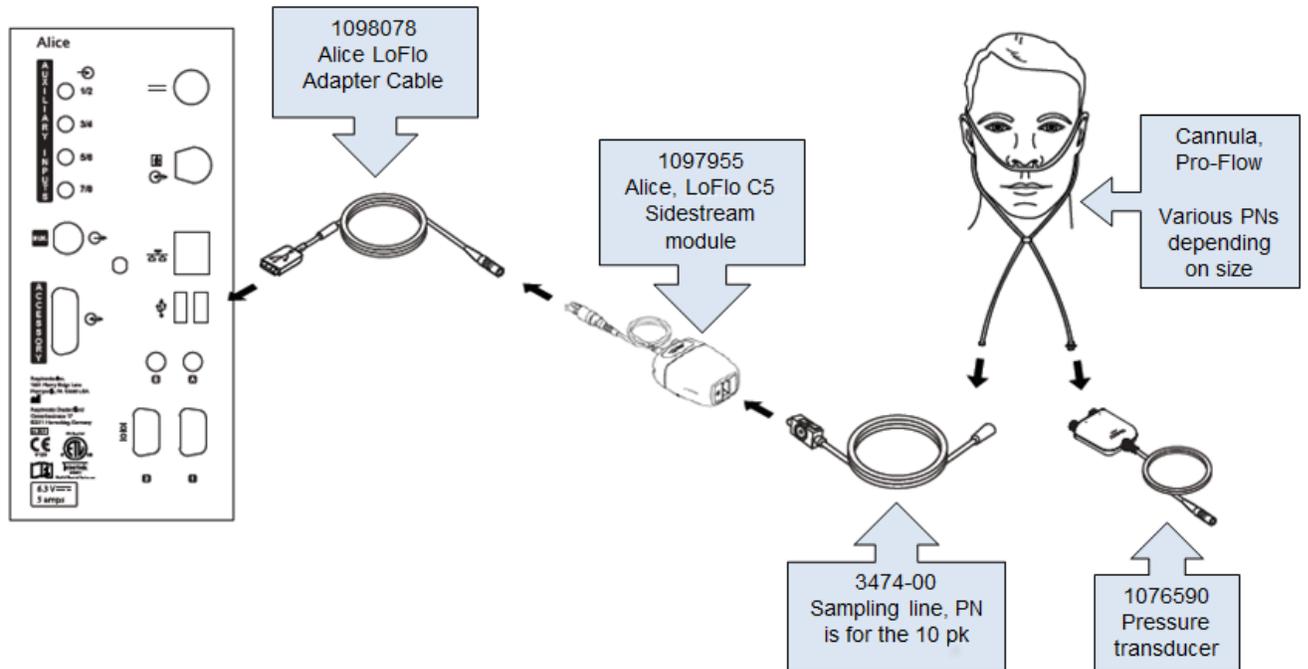
#### Alice 6 PSG system

- Sleepware G3 v3.3.1 or higher
- Alice 6 firmware R6 or higher

#### Alice 5/LE PSG system

- Sleepware G3 v3.3.1 or higher
- Alice 5/LE firmware v 1.9.0 or higher (available May 2013)

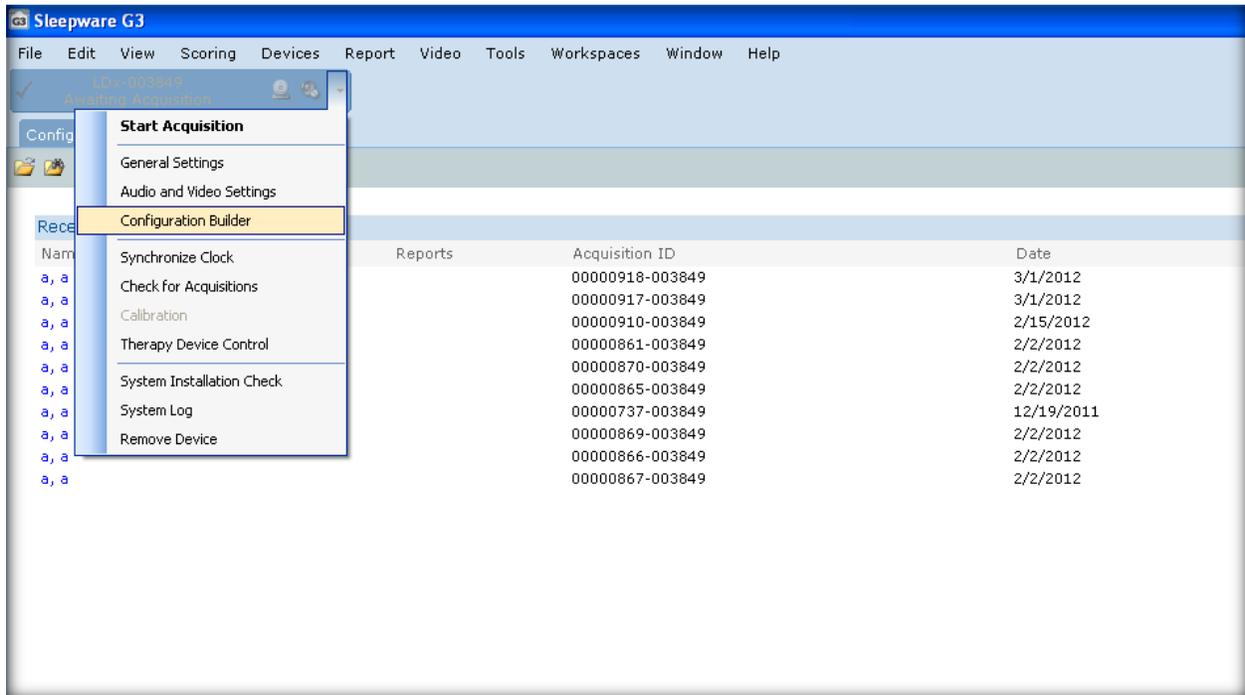
### Connecting LoFlo to Alice



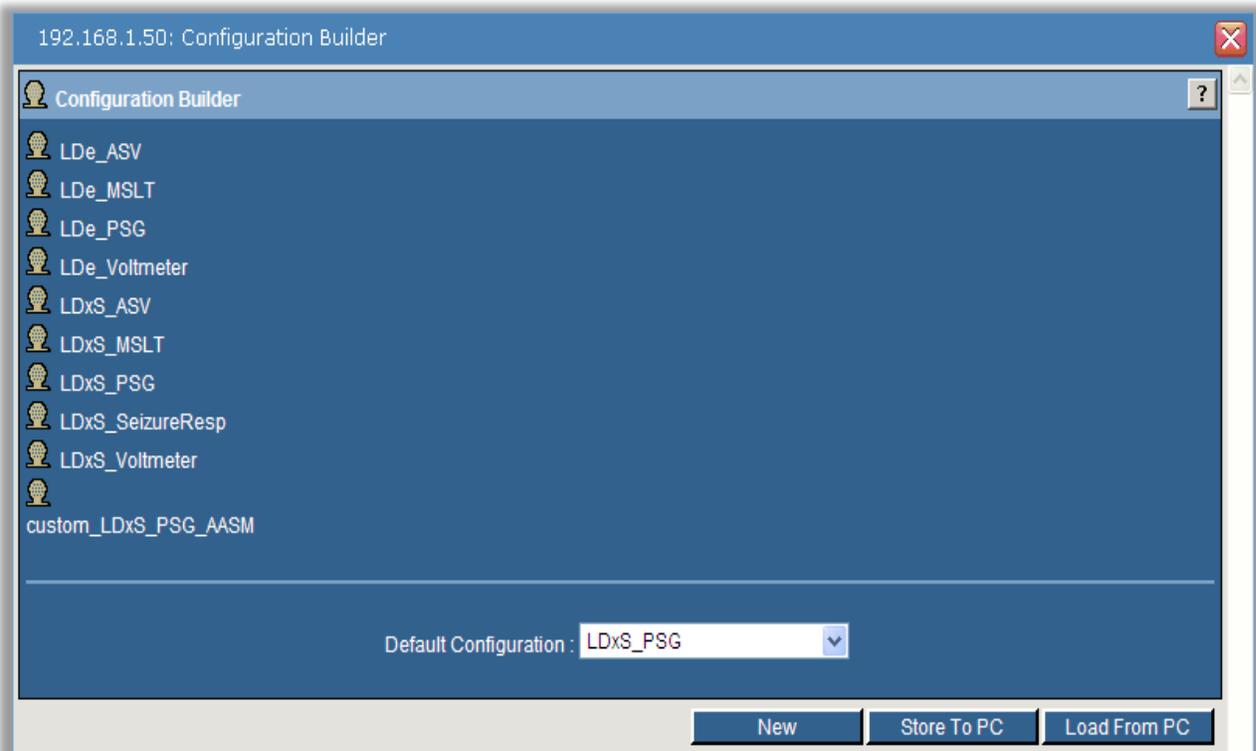
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## Open General Settings from Sleepware



## Choose a Configuration to Edit



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Click the insert arrow at the bottom of the channel list.

The screenshot shows the Philips Configuration Builder interface. On the left is a diagram of a patient's head and torso with various sensors labeled. On the right is a 'Channel List' table. At the bottom of the channel list, there is a red circle around an insert arrow icon.

Label	Type	Source	Frequency	Bits
F3M2	EEG	Headbox	200	16
F4M1	EEG	Headbox	200	16
M1M2	EEG/EOG	Headbox	200	16
C3M2	EEG	Headbox	200	16
C4M1	EEG	Headbox	200	16
O1M2	EEG	Headbox	200	16
O2M1	EEG	Headbox	200	16
LEOGM2	EOG	Headbox	200	16
REOGM2	EOG	Headbox	200	16
CEMG	Chin EMG	Headbox	200	16
LEG1	Leg EMG	Headbox	200	16
LEG2	Leg EMG	Headbox	200	16
ECG1	ECG	Headbox	200	16
ECG2	ECG	Headbox	200	16
MSnore	Microphone Snore	Headbox	500	16
TFlow	Thermistor Flow	Headbox	100	16
THO	Resp Effort	Headbox	100	16
ABD	Resp Effort	Headbox	100	16
SpO2	SpO2	Headbox	1	10
Pleth	Pleth	Headbox	100	16
Body	Body Position	Headbox	1	8
PatFlow	RASP Realtime	Device	10	16
CPAP	CPAP	Device	1	16
IPAP	IPAP	Device	1	16
EPAP	EPAP	Device	1	16
TotLeak	RASP Realtime	Device	10	16
PulseR	Pulse Rate	Headbox	1	8
total data size (10 hours)		347	MB	

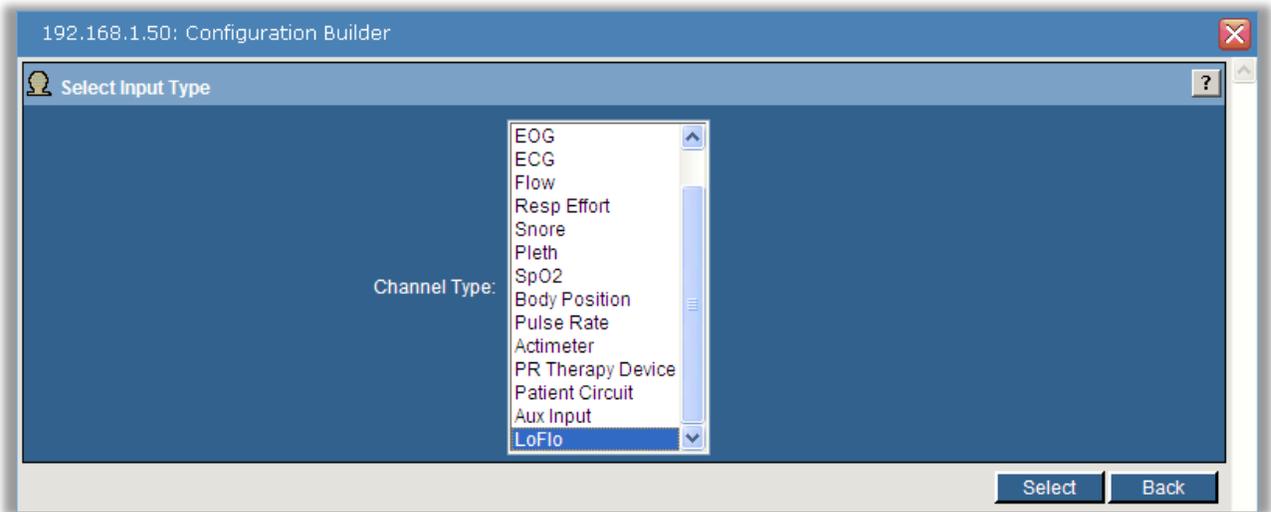
Neuro References	
Type	Label
Left	M2
Right	M1

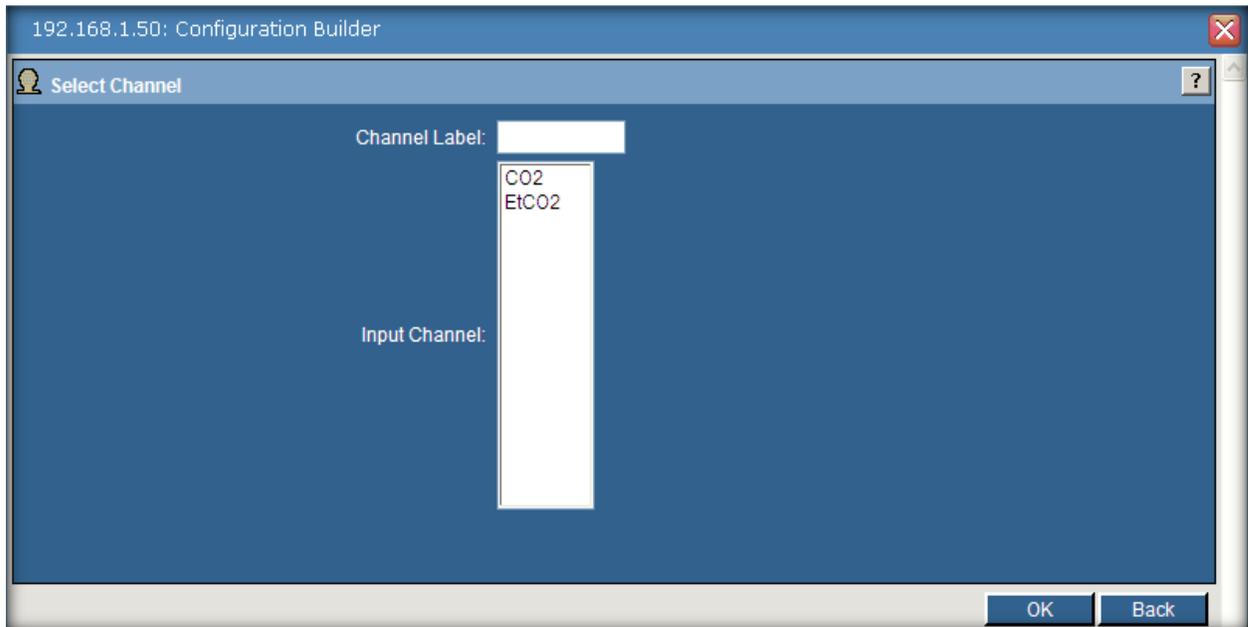
EOG References	
Type	Label
Left	M2
Right	M1

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In the Select Input Type window, scroll to the bottom of the Channel Type list, click on LoFlo, and then click the Select button.



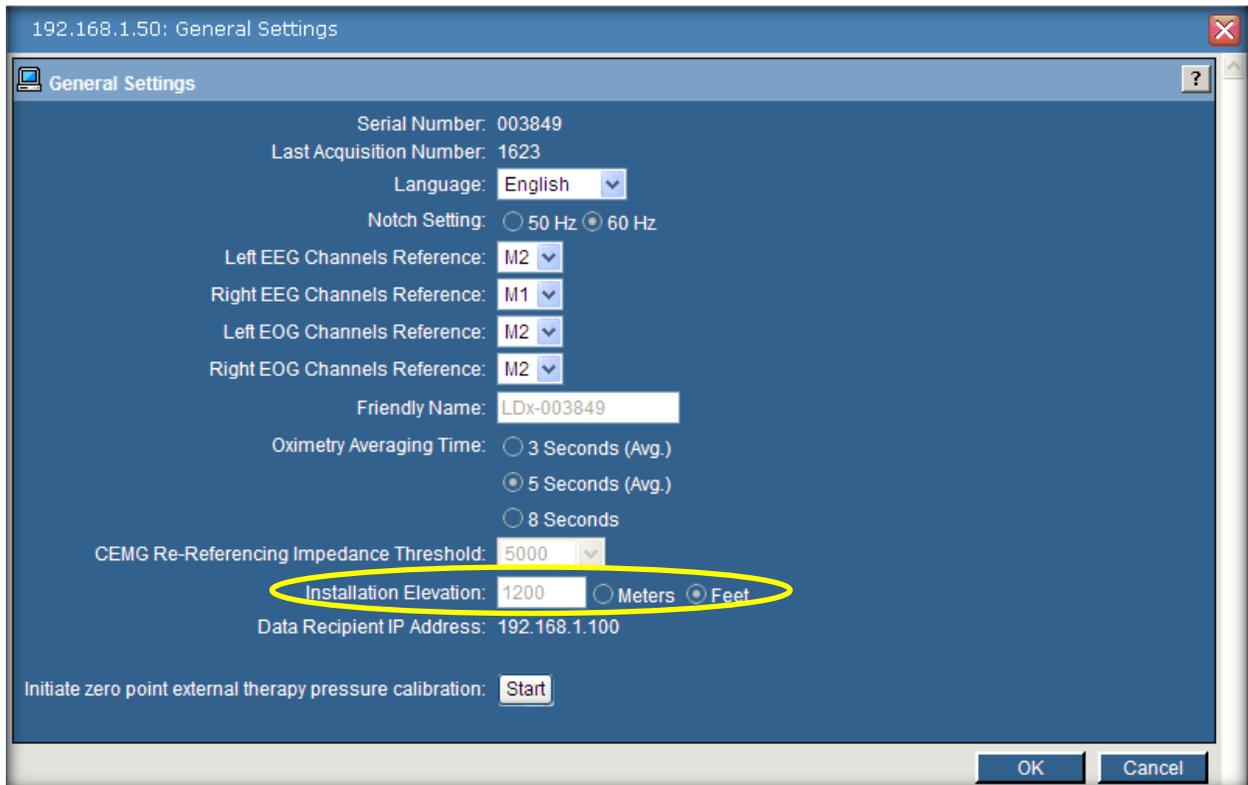
Choose CO2 from the submenu then enter a channel label name and click the OK button.



Enter custom name for channel label if desired. Repeat for EtCO2 channel.



Go to the General Settings page of the Base Station and enter Elevation.

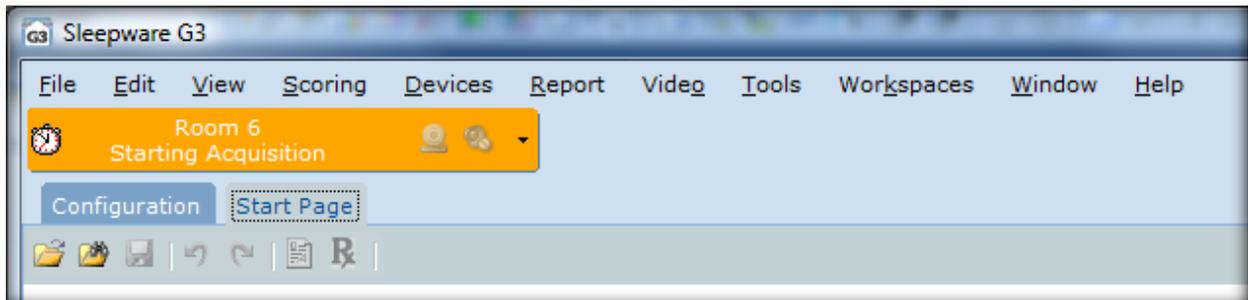


## USING THE LOFLO SENSOR WITH SLEEPWARE G3



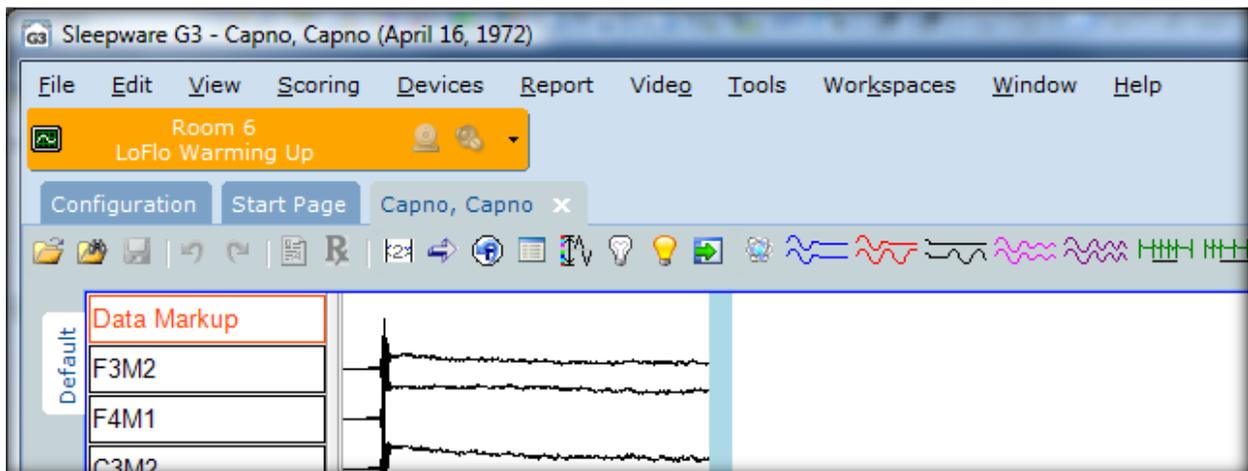
### Starting an Acquisition

- Start an acquisition normally.
- If there is a LoFlo channel in the configuration, the device button will show “Starting Acquisition” and turn orange.



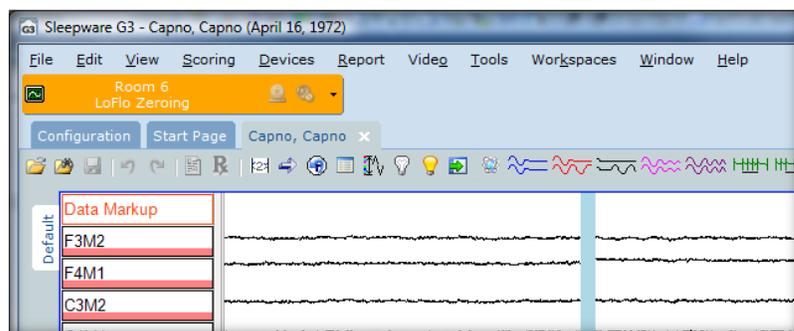
### Warming up

- Once the acquisition is running, the LoFlo takes 30-60 seconds to warm up.
- Device button will remain orange and the message will read “LoFlo Warming Up”.



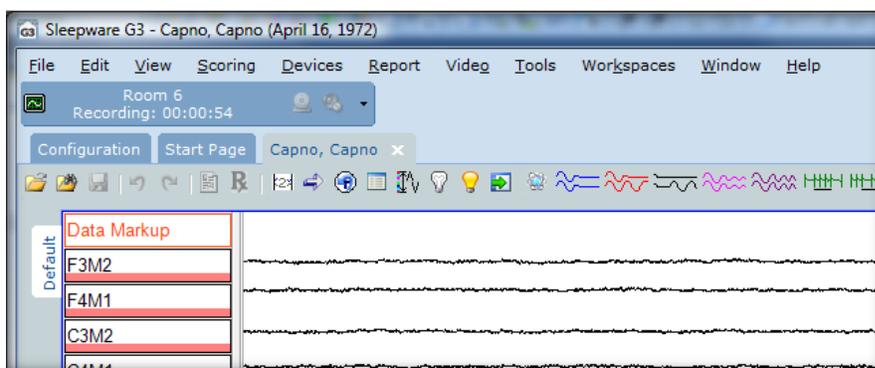
## Zeroing

- After the LoFlo is warmed up, it is zeroed.
- This takes another 30-60 seconds.
- Device button will remain orange and the message will read “LoFlo Zeroing”.



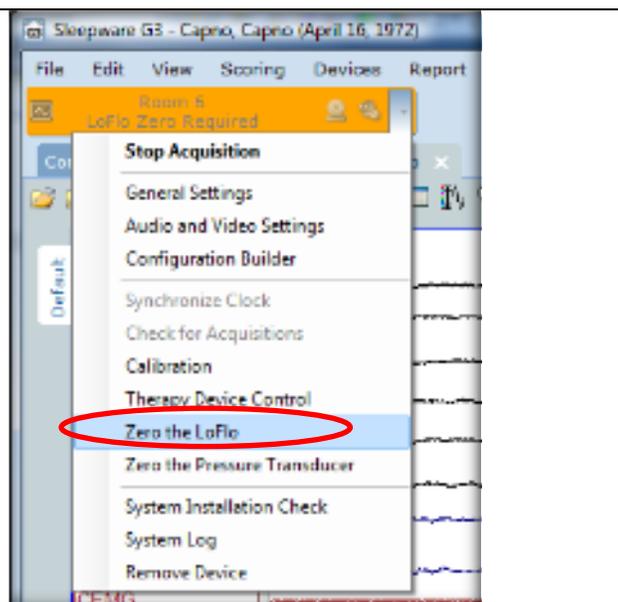
## Normal

- Once the LoFlo has been successfully zeroed, the device button will turn blue.
- Message will be standard “Running” with the duration shown.
- *At this time, the tubing between the LoFlo and the cannula should be connected.*



## Warnings

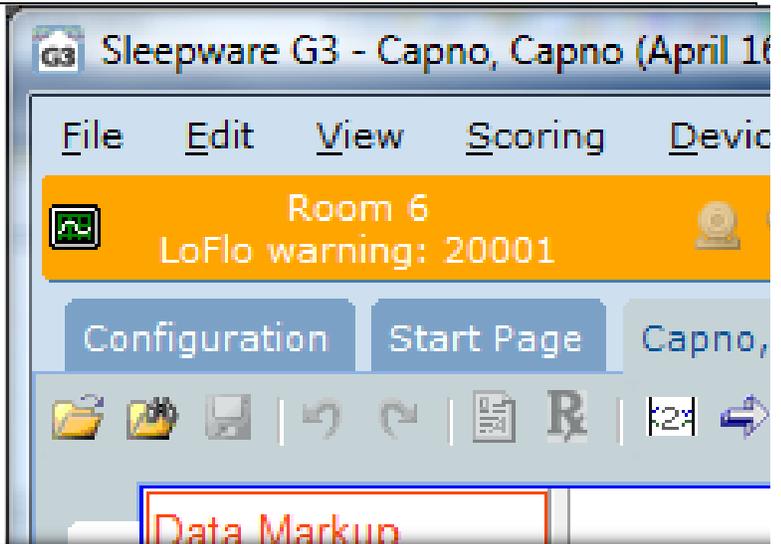
- Device button will turn orange.
- There are two possible “warning” states:
  - LoFlo Zero Required
    - Disconnect tubing between cannula and LoFlo
    - Manually zero the LoFlo from the Device menu



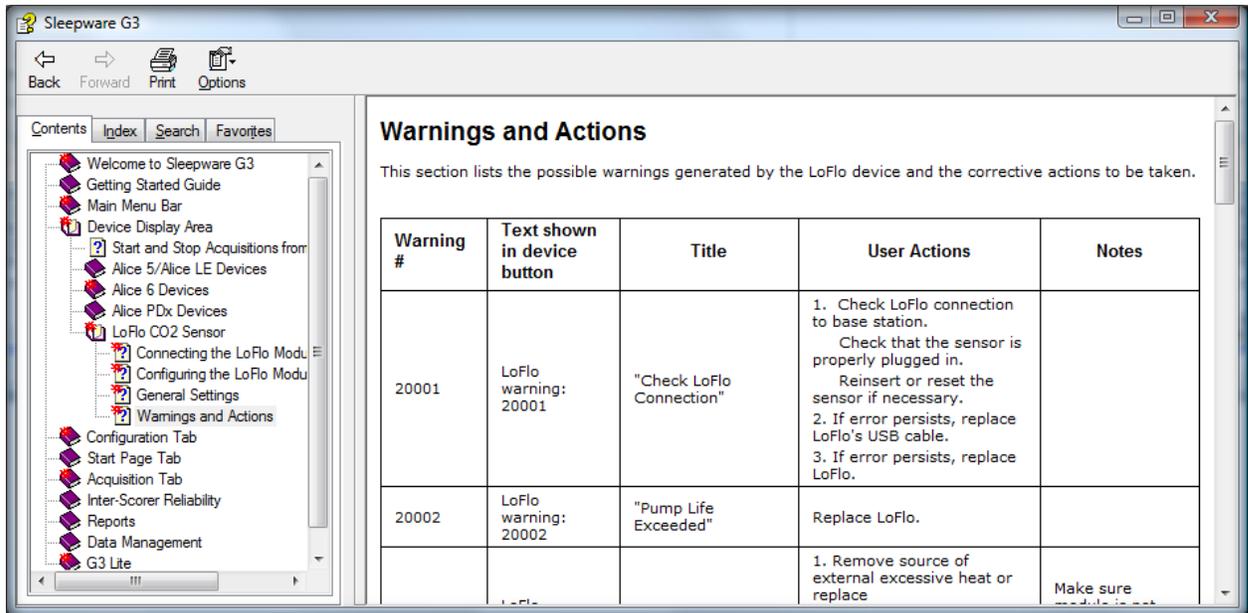
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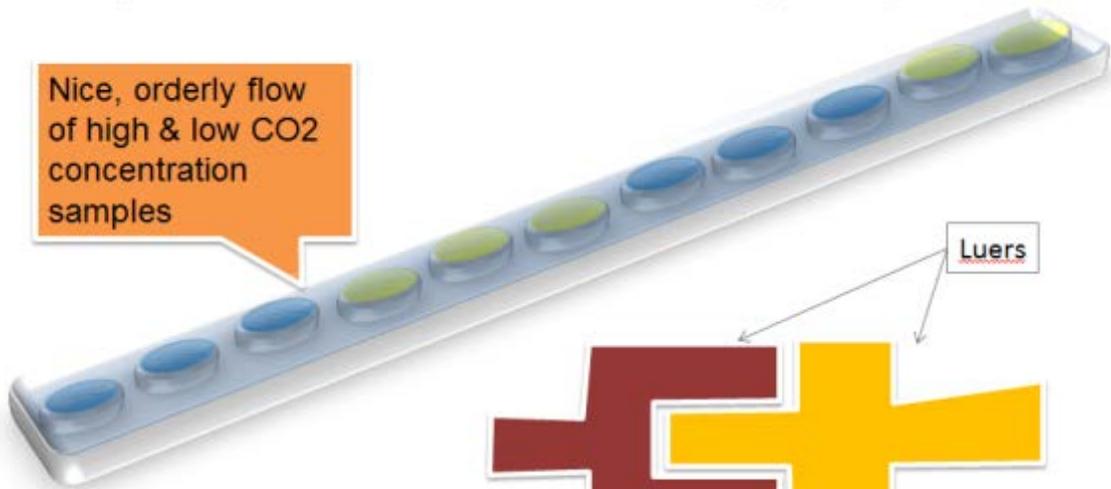
- Warning states
  - Numeric warning
    - Consult online help



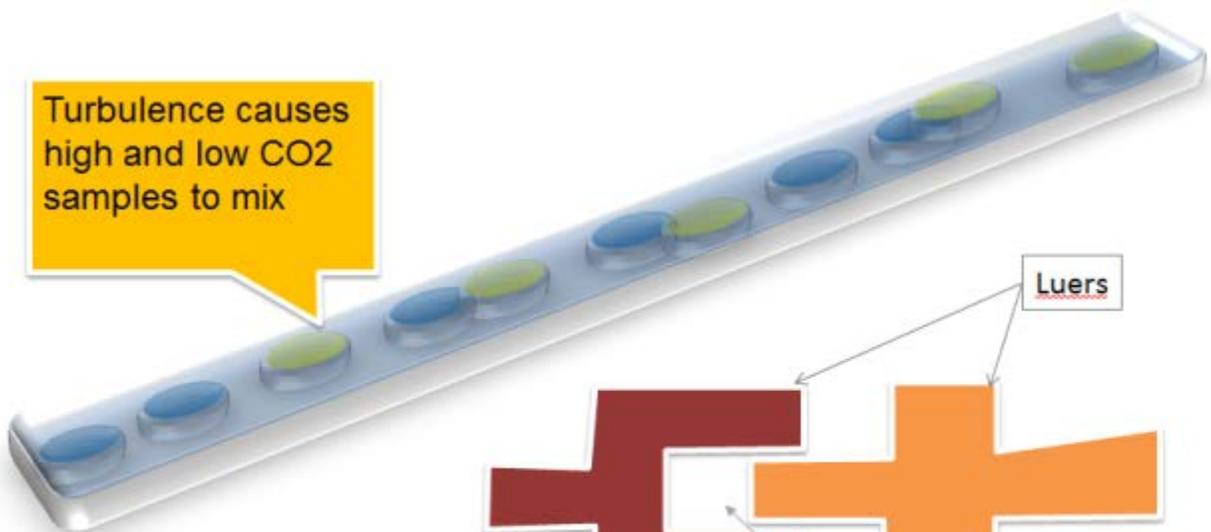
## ONLINE HELP



## SPECIAL LUER TO FIT SAMPLING LINE



Our cannulas are engineered so luers meet with minimal dead air space.



Luers on other cannulas can have too much dead air space, causing turbulence in sample stream. Wave forms are then rounded especially at higher respiratory rates.

## TIPS AND HINTS

- Use LoFlo specific Pro-Flow cannulas
  - Matching of luers important for sharp wave forms
- LoFlo signals will be 3 to 5 seconds behind
  - Nature of side stream monitoring
    - Gas must travel from nose to device
- After updating a Base to R6, make sure to reboot



*Consult the Sleepware G3 and LoFlo manuals for additional information.*

1104386 R02  
JDW 08/06/2014

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