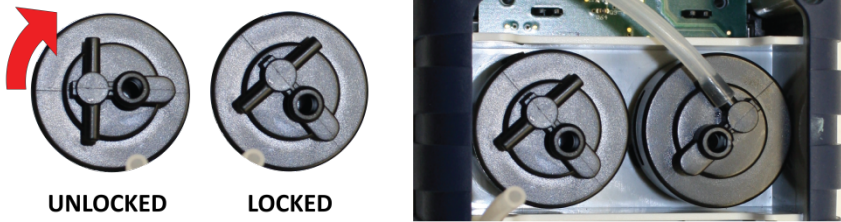


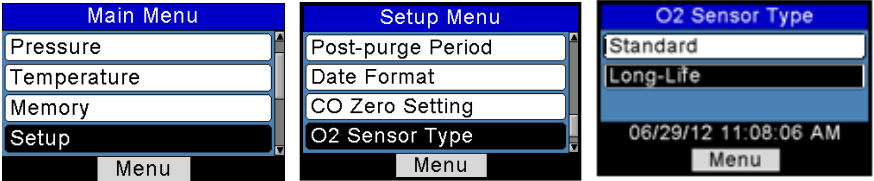


### LL O<sub>2</sub> Sensor Upgrade Procedure

Follow the procedure below for upgrading a standard O<sub>2</sub> sensor to a long-life (LL) O<sub>2</sub> sensor.

Step	LL O <sub>2</sub> Sensor Upgrade	
1	Remove the battery door and the connector tubing from the oxygen sensor.	
2	Remove the O <sub>2</sub> sensor (and the sensor cap) from the socket.	
3	<p>Remove the O<sub>2</sub> sensor cap from the O<sub>2</sub> sensor by twisting the cap counter-clockwise until the nub on the sensor moves to the lower position in the slot of the sensor cap. Then pull apart the sensor from the sensor cap.</p> <p><b>NOTE:</b> Save the O<sub>2</sub> sensor cap for future O<sub>2</sub> sensor use. Properly dispose of the old O<sub>2</sub> sensor.</p>	
4	<p>Install the sensor adapter into the O<sub>2</sub> position on the instrument by aligning the adapter's ribs with the corresponding slots on the sensor receptacle of the instrument.</p> <p>Once the ribs of the adapter are properly aligned, firmly press the adapter into place until it clicks.</p>	
5	<p>Locate the 3-digit date code on the new LL O<sub>2</sub> sensor. Record it for use in step 10.</p> <p>Plug the new LL O<sub>2</sub> sensor into its socket. Note the 3 pins on the back of the LL O<sub>2</sub> sensor (+, -, and a plastic alignment pin). These are aligned such that the sensor will only fit into the socket one way. Match the pin locations as closely as possible, then slowly rotate the sensor back and forth within the adapter until you feel it "catch" in the socket. Press gently until the sensor seats into the sockets of the sensor board.</p>	

Step	LL O <sub>2</sub> Sensor Upgrade	
6	<p>Install new long-life sensor cap. The slot on the cap fits over the nub on the sensor adapter (see the photo on the left).</p> <p>Then twist the cap clockwise (less than ¼ turn) to lock it into place. If installed correctly, the cap should fit securely and should resemble the photo at the right.</p> <p>Refer to the Fyrite INSIGHT Plus manual (0024-9487) for detailed instructions.</p>	 <p><b>IMPORTANT:</b> Do not mistake the O<sub>2</sub> sensor cap for the LL O<sub>2</sub> sensor cap. The LL O<sub>2</sub> cap has an internal extension to compensate for the lower profile of the LL O<sub>2</sub> sensor. The standard O<sub>2</sub> sensor cap is more “hollow” and will not create the proper seal against the Long-life O<sub>2</sub> sensor.</p>
7	<p>Reattach the tubing. Tubing barbs should be positioned as shown in the photo.</p>	 
8	<p>Replace the battery compartment cover.</p>	
9	<p>Turn on the instrument and wait for it to initialize.</p>	
10	<p>Go to the O<sub>2</sub> Sensor Type Menu. Select the Long-Life option, then enter the current date and date code information when prompted.</p> <p><b>NOTE:</b> See manual 0024-9487 for detailed instructions.</p>	
11	<p>Restart the instrument for these changes to take effect.</p>	



Headquarters:  
 621 Hunt Valley Circle, New Kensington, PA 15068-7074  
 Toll Free: 1-800-736-4666 • Tel: +1-724-334-5000 • Fax: +1-724-334-5001  
 Website: [www.MyBacharach.com](http://www.MyBacharach.com) • E-mail: [help@MyBacharach.com](mailto:help@MyBacharach.com)

