

**PERPHORMAX™ brand**  
467432 BI



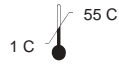
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**PERIPHERAL VISIONS, INC.**  
3902 W. Valley Hwy. N. Bldg 502,  
Auburn, Wa. 98001 USA  
253.735.3910

**RECHARGEABLE GLUCOSE OXYGEN  
SENSOR**

CE IVD EC REP



CE Partner4U, Esdoomlaan 13,  
3951DB Maarn, The Netherlands

*Replaces Beckman Coulter Accusense™ Electrode*

**CARE, USE, AND INSTALLATION INSTRUCTIONS**

For use on Beckman Coulter LX™ Systems

**Warning:**

Removal of manufacturer's label from electrode side may result in loss of filling solution. It should only be removed when preparing to recharge electrode.

**Cautions:**

Do not touch sensors membrane tip.

Do not remove, unscrew, or loosen membrane tip unless directed to do so during recharge procedure.

Do not expose to extreme temperatures.

Do not expose inside of electrode to alcohols. Use only DI water and cleaning solution.

Do not insert stirrer removal tool, or any other object into the glucose reaction cup unless sensor has been removed. Otherwise, damage to the sensor membrane tip may occur.

**Intended Use:**

The Perphormax rechargeable Glucose Oxygen sensor is intended for the quantitative determination of glucose in serum, plasma, cerebrospinal fluid (CSF), and urine on Beckman SYNCHRON CX or ALX systems.

**Methodology:**

The glucose determination is measure by an oxygen rate method.

**Description:**

This electrode requires no assembly and upon removal from package is ready to install on the system. Additional features include:

- does not need to be discarded after 4 months on instrument and it is reusable.
- eliminates the need for recharging every two weeks - useful lifetime between charges is 4 months!
- utilizes a quad ring installed on membrane tip for better sealing; chances of it remaining in cup housing are considerably reduced.
- It may be recharged after 4 months utilizing a recharge kit available from Peripheral Visions, Inc. Recharge kit includes: new membrane tip, cleaning solution, refill solution and syringe. (Estimated operator time to clean and recharge electrode is 35 minutes.)

**Stability:**

The Perphomax Rechargeable Glucose Oxygen Sensor can be installed on the instrument up to and including the expiration date printed on the package label. Once installed the electrode is stable for four months on the instrument. After an electrode has been used for four months it is recommended the sensor be recharged, replaced, or sent to Peripheral Visions, Inc. for a recharge service.

**Storage:**

Store this electrode at room temperature. It is important to store this electrode in an airtight sealed package prior to use. ( Exposure to oxygen in the atmosphere may shorten useful lifetime on instrument and require recharging.)

**Warranty:**

The electrode is warranted for the useful life of the instrument with the following limitations:

This warranty is not transferrable.

Certain limitations apply with regard to expiration date: If opened and used after expiration date this electrode must be recharged to be useable. Customer bears cost of recharge kit.

Electrode tip and membrane is warranted for 4 months from date of installation (prior to expiration date).

For a warranty replacement, please call customer service at (253) 735-3910 for a Return Material Authorization. Peripheral Visions, Inc. reserves the right to replace this sensor with a new or refurbished sensor at its discretion.

**Recharging:**

After initial installation and 4 months on instrument has expired you have the following options:

1. Recharge the electrode sensor - this requires our recharge kit which includes specific instructions for recharge. Typically it requires removal of electrode tip, internal cleaning, installation of a new electrode tip, and filling with filling solution. Typically this operation will consume 35 minutes of operator time. Electrode performance will be restored to like new conditions.
2. Send the electrode to Peripheral Visions, Inc. for a recharge service. Customer bears minimal transportation costs and cost of service. Electrode is returned in new sealed packaging with new expiration date.
3. Replace electrode sensor with a new sensor.

Notes: Recharge instructions may be found on our website ([www.peripheralvisions.com](http://www.peripheralvisions.com)). Options 1 thru 3 are listed in order of expense to customer with option 1 being the least expensive.

## Installation

1. Clean reaction cup and stirrer per operator's manual.
2. Remove Perphormax Rechargeable Oxygen Sensor from sealed packaging.
3. Insure that stirrer is installed in reaction cup and insure that no gaskets, etc. remain in electrode port on reaction cup.
4. Install threaded electrode nut onto new electrode sensor.
5. Hold sensor with membrane tip facing towards the ground and aggressively tap the side of the electrode with finger to insure that all bubbles go towards the rear or top of the electrode.

**Note: It is very important to insure that ALL bubbles are cleared from the membrane tip area. Any bubbles that remain adjacent to or adhere to the membrane tip will either cause problems immediately or be a potential problem. Bubbles can cause a decrease in rate reaction or decrease in span, if present in membrane tip area.**

6. Insuring that bubble(s) remain towards rear of electrode, gently elevate membrane tip so that electrode is now parallel to the ground. Install the electrode into the reaction cup port and thread electrode nut on so that electrode is secured into the reaction cup.

7. Plug electrode connectors into red and black female connectors on the instrument. Electrode will begin to polarize.
8. Prime reaction cup 2 times .
9. Wait 30 - 45 minutes for reaction cup and electrode to equilibrate to 37 degrees Celcius.
10. Calibrate glucose and verify proper calibration, span, and control recovery.  
Note: This electrode (when new or recharged) will typically exhibit a gain of 3 to 7 with spans similar to Beckman's Accusense Electrode. Control and precision characteristics should be similar. During the initial 24 hours of use this electrode may drift and more frequent calibration may be required.
11. It is recommended to record installation date.

**To Reorder:**

Please call our customer service at (800) 728 4146 or (253) 735-3910

**Part Numbers:**

469499 BI Glucose Oxygen Sensor (CX)

469499 REC Recharge Kit for LX or CX Oxygen Sensor

Technical Support:

Please call (253) 735 3926

Manufactured by:

Peripheral Visions, Inc.

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Auburn, Wa. 98001