

PASCO PS-3605 Wireless Optical Dissolved Oxygen Sensor **Cap Instruction Manual**

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PASCO PS-3605 Wireless Optical Dissolved Oxygen Sensor Cap Instruction Manual



Introduction

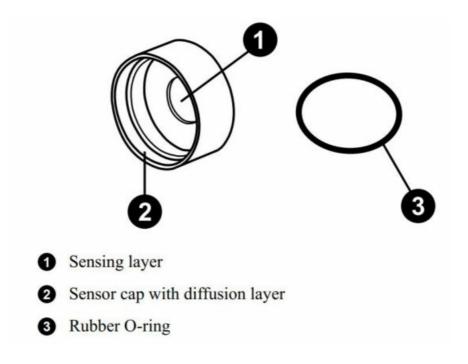
The Wireless Optical Dissolved Oxygen Sensor Cap is a replacement sensor cap for the one included with the Wireless Optical Dissolved Oxygen Sensor (PS-3224). The sensor cap must be periodically replaced due to the sensing layer degrading over time. The cap should also be replaced if it becomes cracked, scratched, or damaged. The working life of a sensor cap can be extended by keeping it clean and properly covered when not in use.

Components

Included components:

- Wireless Optical Dissolved Oxygen Sensor Cap
- Rubber O-ring
- Sensor Calibration Coefficients sheet Required equipment:
- Wireless Optical Dissolved Oxygen Sensor (PS-3224)
- PASCO Capstone or SPARKvue data collection software

Features



Replacing the sensor cap

IMPORTANT: Do not use a tool to install or remove the sensor cap. To make replacement easier, clean and dry the sensor prior to removal.

- 1. Remove the rubber boot from the probe.
- 2. Turn the installed sensor cap counterclockwise until it detaches from the probe.
- 3. Remove the rubber O-ring from the sensor, then place the replacement O-ring onto the threads of the probe.
- 4. Screw the replacement sensor cap on the probe and turn clockwise until secure, then replace the rubber boot on the probe.
- 5. Perform the sensor cap calibration process described in the next section.

Cap calibration

Before performing measurements with the Wireless Optical Dissolved Oxygen Sensor after a sensor cap replacement, you will need to calibrate the sensor for the new cap. Follow the instructions below to perform this calibration in PASCO Capstone or SPARKvue.

IMPORTANT: Each Sensor Calibration Coefficients sheet contains two sets of ten numbers each. Your Wireless Optical Dissolved Oxygen Sensor's manufacturing date determines which set of numbers should be entered into the software for maximum precision. Please contact PASCO technical support to determine which set of coefficients to use.

SPARKvue

- 1. Connect the sensor to SPARKvue and set up a data collection display. For more information on this process, see the sensor's manual and the SPARKvue online help.
- 2. Select the sensor measurement name in the live data bar in the bottom left, select Configure Sensor .
- 3. Select Set Cap Coefficient....
- 4. Enter the appropriate set of ten Sensor Calibration Coefficients. Make sure each number is separated by a space. (See Figure 1.)
- 5. Select OK, then select OK in the success window.
- 6. Select Done.
- 7. Perform a one-point or two-point sensor calibration.

PASCO Capstone

- 1. Connect the sensor to Capstone. For more information on this process, see the sensor's manual and the Capstone online help.
- 2. In the Hardware Setup tool, select the Properties icon next to the sensor's name.
- 3. Select the Cap Coefficients text box, then enter the appropriate set of ten Sensor Calibration Coefficients. Make sure each number is separated by a space. (See Figure 1.)
- 4. In the success window, select OK.
- 5. Close the Properties window, then perform a one-point or two-point sensor calibration.

Troubleshooting

One of the following error messages will appear if sensor cap calibration is not successful. Follow the associated instructions if an error message appears.

- Invalid checksum: Verify that each number exactly matches the appropriate set of numbers on the Sensor Calibration Coefficients sheet, including negative signs and decimals.
- Coefficients must be a list of 10 numbers separated by spaces: Verify that all ten numbers have been entered, and that they are all separated by a space.

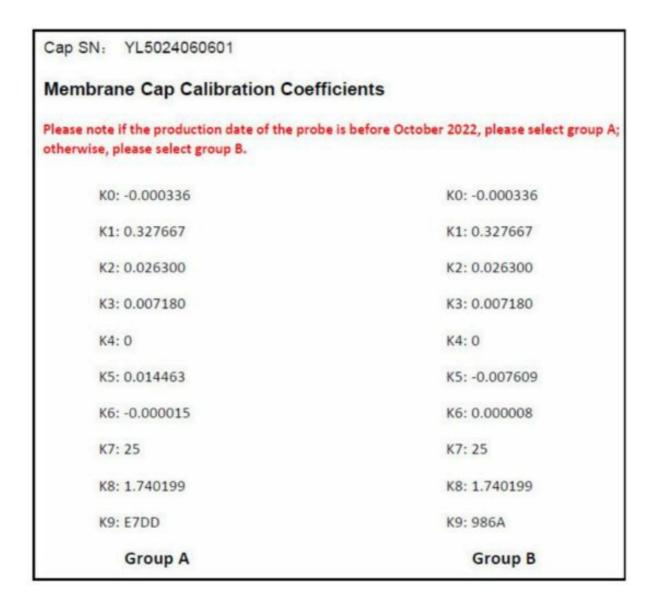


Figure 1: Example of a Sensor Calibration Coefficients sheet. Numbers in Group A should be entered as "-0.000336 0.327667 0.026300 0.007180 0 0.014463 -0.000015 25 1.740199 E7DD".

Technical support

Need more help? Our knowledgeable and friendly Technical Support staff is ready to answer your questions or walk you through any issues.

Phone

- 1-800-772-8700 x1004 (USA)
- +1 916 462 8384 (outside USA)

Email support@pasco.com

Limited warranty

For a description of the product warranty, see the Warranty and Returns page at www.pasco.com/legal.

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References

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