



# LDO™ Sensor Replacement Kit

For use with Hach LDO101 Standard and Rugged Dissolved Oxygen Probes

User Manual





# LDO™ Sensor Replacement for LDO101 Probes

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Each LDO sensor cap replacement kit comes with a sensor-specific calibration update iButton®. When the iButton is installed in the pressure-sensor module (located on the LDO101 probe cable), the probe calibration is updated for the new sensor cap.

The kit includes:

- Sensor cap with O-ring and seal
- Calibration update iButton

## Replacing the Sensor Cap and iButton

1. Disconnect the LDO101 probe from the meter. If using a rugged LDO101 probe, remove the protective shroud from the end of the probe.
2. Remove the used sensor cap from the probe and discard. Do not touch or soil the exposed sensor lens ([Figure 1](#)).
3. Carefully remove the used O-ring from the sensor tip. Remove the used cap seal by rolling it off with your fingers. Do not use sharp metal tools.

## LDO™ Sensor Replacement for LDO101 Probes, continued

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4. Position the new cap seal on the probe body with the narrow shoulder of the seal facing the probe tip (Figure 1). Slide the seal until it rests against the probe body threads.
5. Place the new O-ring into the groove at the sensor tip (Figure 1). Do not touch the sensor lens.

**Note:** *If the sensor lens is soiled, rinse with dilute isopropyl alcohol or deionized water and blot completely dry. Do not wipe the lens or use abrasive cleaners.*

6. Finger-tighten the new sensor cap onto the probe until the seal is compressed. Do not over-tighten. The cap will push the seal over the threads and into position (Figure 1). Do not touch or soil the sensor lens.

**Note:** *Avoid handling the black face of the sensor cap. DO NOT use alcohol or other organic solvents to clean the black face of the sensor cap. These solvents will destroy the sensor cap.*

7. Inspect the cap seal to make sure the narrow shoulder of the seal is inside the cap.

## LDO™ Sensor Replacement for LDO101 Probes, continued

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8. Pull to open the iButton®\* cover on the pressure-sensor module (Figure 1). Tip the module to remove the existing iButton.
9. Verify that the lot code printed on the new iButton matches the lot code on the new sensor cap (Figure 2).
10. Insert the new iButton with the paper label facing up.
11. Close the iButton cover and press until it seats against the surface of the module housing. The cover must be seated properly to ensure good electrical contact with the iButton and to ensure a proper seal.
12. Re-assemble the protective shroud and ring (if using the rugged probe) and re-connect the LDO101 probe to the meter.

**Note:** Changing the iButton resets the stored calibration to correspond to the new sensor. If the meter was calibrated manually, the **PROBE ?** icon will appear to indicate that the manual calibration is not valid for use with the new sensor.

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\* iButton is a registered trademark of Maxim Integrated Products, Inc.

## LDO™ Sensor Replacement for LDO101 Probes, continued

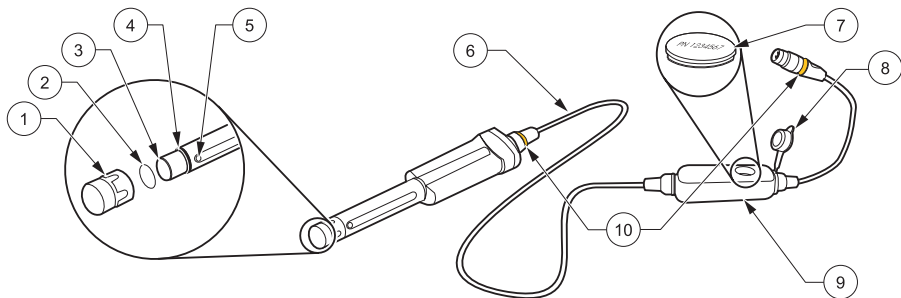


Figure 1 LDO101 Standard Probe—Sensor Cap and iButton

<b>1</b> Sensor Cap	<b>6</b> 1- or 3-meter Cable
<b>2</b> O-ring	<b>7</b> iButton
<b>3</b> Sensor Lens	<b>8</b> iButton Cover
<b>4</b> Cap Seal	<b>9</b> Pressure-sensor Module
<b>5</b> Temperature Sensor	<b>10</b> Location for Color-code Clips

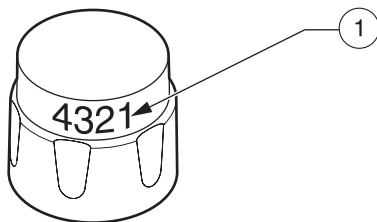


Figure 2 Sensor Cap

<b>1</b> Lot Code on Sensor Cap
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# LDO™ Sensor Replacement for LDO101 Probes, continued

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## Replacement Parts

Description	Quantity	Catalog Number
LDO Sensor Replacement Kit for LDO101 Probes	1	58112-00
Instruction Manual for Sensor Replacement	1	58112-89



**FOR TECHNICAL ASSISTANCE, PRICE INFORMATION AND ORDERING:**

In the U.S.A. – Call toll-free 800-227-4224

Outside the U.S.A. – Contact the HACH office or distributor serving you.

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Telephone: (970) 669-3050

FAX: (970) 669-2932