

700 ULTRA

12 mm pH/Redox (ORP) sensor



700 Ultra replenishing kit

Measurement made easy

700 ULTRA
12 mm pH/Redox
(ORP) sensor

Introduction

This publication details the procedure for replenishing the potassium chloride (KCl) solution for the 700 ULTRA sensor.

Requirements

Table 1 700 ULTRA replenishing kit (3KXA163700L0008) contents

Description	Quantity
Syringe 10 mL disposable	1
PVC tubing medical grade 0.89 mm ID	1
Dispensing tip	1
This instruction: IN/ANAINST/050	1

Table 2 Consumables required

Part number	Description	Quantity
3KXA163700L0007	3.5 M KCl solution, 500 mL	1

Table 3 Documents required

Part number	Description	Quantity
IN/ANAINST/040	700 ULTRA series flow chambers and accessories	1

For more information

Further information is available from:

www.abb.com/analytical

or by scanning these codes:



Sales



Service

1 Health & safety

Document symbols

Symbols that appear in this document are explained below:

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

Safety precautions

CAUTION

- Shut down and depressurize the process lines before you insert or remove the sensors.
- Wear protective goggles and gloves during this procedure.
- The sensors must be installed and maintained by suitably trained personnel only.
- Make sure that you read, understand, and obey the instructions in this manual before and during use of the equipment. Failure to do so could cause injury, or damage to the equipment.

2 Fill the electrode

- 1 Connect the tubing to the syringe.

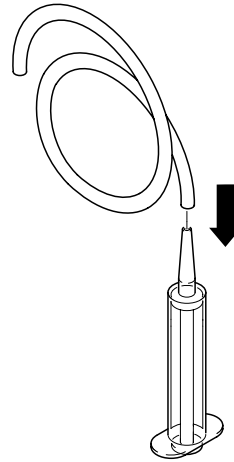


Figure 1 Connect the tubing to the syringe

- 2 Fill the syringe and the connected tubing with the 3.5 M KCl solution.

Note. Make sure that there are no air bubbles in the KCl solution, which can go into the electrode.

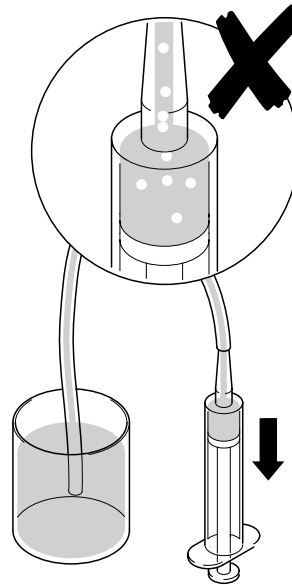


Figure 2 Fill the syringe

- 3 Remove the sensor from the process. Refer to [IN/ANAINST/040](#) for instructions to remove the sensor from the flowcell.

Note. Keep the sensing part of the glass wet during the replenishing procedure.

- 4 Insert the tubing into the side arm of the 700 ULTRA electrode, until you can see the tubing through the electrode glass.

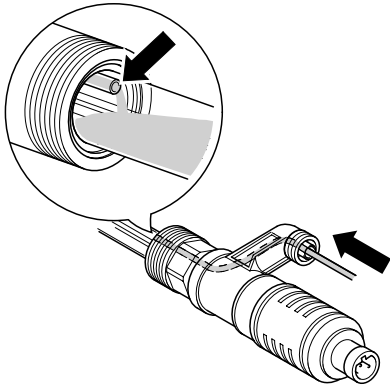


Figure 3 Tubing in the electrode (Note. The balloon detail shows the sensor from another angle for easier visualization)

- 5 Slowly fill the electrode with the 3.5 M KCl solution until the solution starts to come out of the side arm.

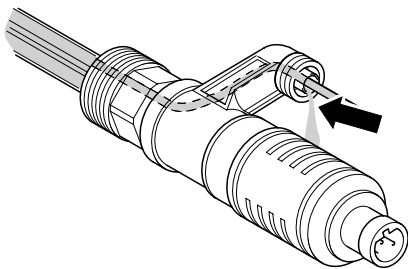


Figure 4 KCl solution coming out of the sensor's side arm

- 6 Remove the tubing from the electrode.
- 7 Wipe the electrode to remove the spilled KCl solution.
- 8 Complete the calibration of the sensor.
- 9 Install the sensor to the process.
Refer to [IN/ANAINST/040](#) for instruction to install the sensor to the flowcell.

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For more product information, visit:
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