

Install Air Sensor L9

Installation Instructions

1 Introduction

Scope

This document describes how to install the external Air Sensor **L9-1.5** and **L9-1.2** on ÄKTA™ systems.

Location

Air sensors are used to prevent air from entering the liquid flow path of the instrument. Depending on the instrument used, Air Sensor **L9** can be installed in different positions.

Instrument	Location
ÄKTA avant	• before Sample inlet valve, or • after the injection valve.
ÄKTA pure	• before Pump A, • before Pump B, • before Sample Pump S9, S9H or • after the injection valve.
ÄKTAgo	• before inlet Sample in Inlet Valve K9, or • after Inlet Valve K9.

Note: Only one air sensor at the time can be installed in the ÄKTA go and ÄKTA avant instrument. Air Sensor L9-1.5 must be used in ÄKTA go.

- Note:** *In general, Air Sensor L9-1.5 is used before an sample inlet valve, and before pumps on the instruments. Air Sensor L9-1.2 is used after the injection valve on ÄKTA pure and ÄKTA avant.*
- Tip:** *For complete sample loading from an inlet valve, install the air sensor. before the sample inlet. For more information on how to use air sensors, see the user manual and the Operating Instructions for respective instrument.*

2 Adjust the Node ID (only ÄKTA pure)

All modules have a pre-configured Node ID according to their function. The Node ID is used by the instrument to distinguish between several units of the same type.

The Node ID for Air Sensor **L9** is by default set to 0. The Node ID for additional air sensors needs to be changed according to the table below for ÄKTA pure. Check the Node ID of the module when troubleshooting.

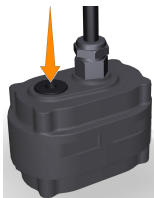
Module	Node ID
Air Sensor 1	0
Air Sensor 2	1
Air Sensor 3	2
Air Sensor 4	3

- Note:** *Only one air sensor at the time can be installed in the ÄKTA go and ÄKTA avant instrument.*
- Note:** *The function of a module is defined by the module type and the Node ID, not by its physical position.*

Check/change Node ID

The Node ID is set by positioning the arrow of a rotating switch located inside the external air sensor. Follow the steps below to check or change the Node ID.

Step	Action
1	Use a Torx™ T20 screwdriver to remove the screw indicated in the illustration.



Step	Action
2	Use a screwdriver to turn the switch, located beneath the removed screw, to the desired number.

3 Attach the air sensor

Follow the steps below to install external Air Sensor **L9**.

Note: *Illustrations that include the instrument panel show installation on ÄKTA avant. Installation on the other instruments is performed correspondingly.*



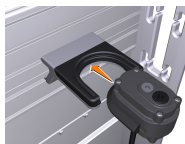
CAUTION

Disconnect power. Always switch off power to the ÄKTA instrument before replacing any of its components, unless otherwise stated in the user documentation.

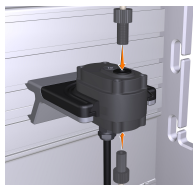
Step	Action
1	(Optional) Attach the air sensor to the rails on the instrument: a. Mount the adapter around the air sensor.



- b.** Attach a bottle holder to the rail, and insert the air sensor into the bottle holder.



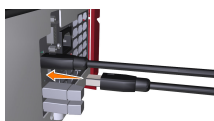
Step	Action
2	Connect tubing to the air sensor. For more information on tubing connections, see the user manual and the Operating Instructions for respective instrument.



3	Connect the communication cable at the back of the instrument, by removing one of the grey jumpers.
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Note:

The communication cable is mounted on the air sensor.



ÄKTA avant



ÄKTA pure and ÄKTA go

Note:

Keep the removed jumper, it might be needed later since all contacts must have a connected module or jumper.

Note:	<i>When a module is removed or a new module is installed, the system configuration must be updated in UNICORN™ system control software. See Chapter 4 Update the system properties, on page 4 for instructions.</i>
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Connect tubing

For more information on tubing connections, see the user manual and the Operating Instructions for respective instrument.

4 Update the system properties

When a new air sensor has been installed, the **System properties** for the system has to be updated in UNICORN. The system will restart automatically when the configuration has been changed and the system can be reconnected.

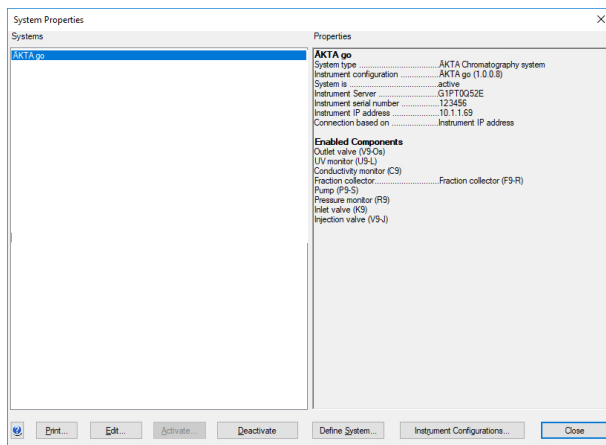
Follow the instructions below to update the system in UNICORN.

Step Action

- 1 On the **Tools** menu in the **Administration** module, click **System Properties** or click the **System Properties** icon to open the dialog.

Result:

The **System Properties** dialog is displayed.



Step	Action
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- | | |
|---|--|
| 2 | Select the system of interest in the System Properties dialog and click Edit . |
|---|--|

Result:

The **Edit** dialog is displayed.

Note:

Only active systems can be edited.

- | | |
|---|--|
| 3 | Select Monitors and sensors from the Component types list. |
|---|--|

Result:

All available monitors and sensors are shown in the **Component selection** list.

Note:

*Instrument modules are referred to as **Components** in UNICORN.*

- | | |
|---|---|
| 4 | Click the checkbox to select the added external air sensor. |
| 5 | Choose the appropriate location for the selected air sensor, in the Property column. |
| 6 | Click the OK button to apply the changes. |

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28968652 AE V:4 07/2020