# Install Air Sensor L9-1.5

## Scope

This document describes how to install the external Air Sensor **L9-1.5** 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 **L9-1.5** can be installed in different positions.

| Instrument | Location |
|---|---|
| ÄKTA avant | • before Sample inlet valve,<br>or<br>• after the injection valve. |
| ÄKTA pure | • before Pump A,<br>• before Pump B,<br>or<br>• after the injection valve. |
| ÄKTA go | • before inlet **Sample** in Inlet Valve **K9**,<br>or<br>• after Inlet Valve **K9**. |

***Note:*** *Only one air sensor can be installed in the ÄKTA go instrument.*

***Tip:*** *For complete sample loading from an inlet valve, install the air sensor before the sample inlet. See the User Manual of the instrument for more information.*

## Instruction

Follow the steps below to install external air sensor **L9-1.5**.

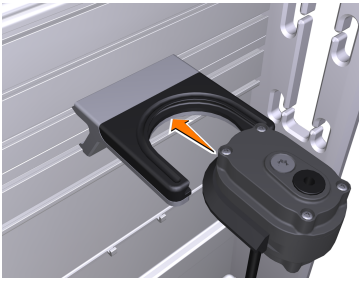
***Note:*** *Illustrations that include the instrument panel show installation on ÄKTA avant. Installation on other ÄKTA instruments is performed correspondingly.*

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

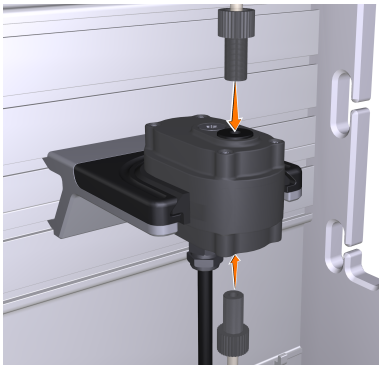
| Step | Action |
|---|---|
| 1 | **(Optional)** Attach the air sensor to the rails on the instrument: |

1 Mount the adapter around the air sensor.

2 Attach a bottle holder to the rail, and insert the air sensor into the bottle holder.



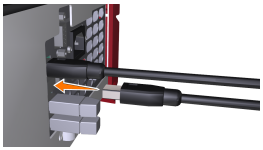
| Step | Action |
|---|---|
| 2 | Connect tubing to the air sensor. See *Connect tubing, on page 4* for information on tubing and connectors. |



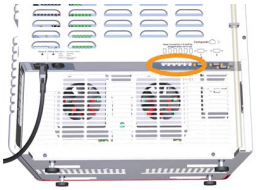
| Step | Action |
|---|---|
| 3 | Connect the communication cable at the back of the instrument, by removing one of the grey jumpers. |

***Note:***

*The communication cable is pre-installed on the air sensor.*



ÄKTA avant



ÄKTA pure and ÄKTA go

***Note:***

*Keep the removed jumper safely. All contacts must have a connected module or jumper.*

***Note:*** *When a module is removed or a new module is installed, the system configuration must be updated in UNICORN™ system control software. See Software configuration, on page 7 for instructions.*

## Connect tubing

| Connection between... | Tubing | Connector | Tubing length (mm) |
|---|---|---|---|
| Air Sensor **L9-1.5** and inlet valve or pump | FEP, o.d. 1/8", i.d. 1.6 mm | Tubing connector, 5/16" + Ferrule (yellow), 1/8" | 200 |

***Note:*** *In ÄKTA go, the maximum total tubing length between an additional inlet valve and Inlet Valve **K9** is 300 mm.*

# Node ID

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 **L9-1.5** is 0. The Node ID for additional air sensors is shown in the table below for ÄKTA avant and ÄKTA pure. Check the Node ID of the module when troubleshooting.

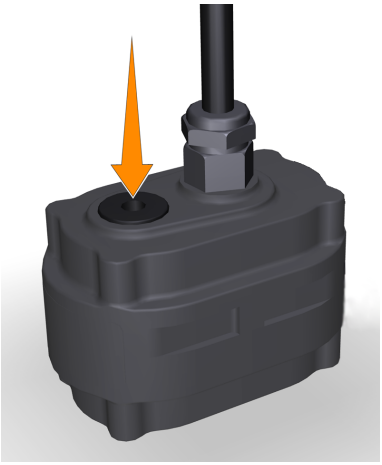
| Module | Node ID |
|---|---|
| Air Sensor 1 | 0 |
| Air Sensor 2 | 1 |
| Air Sensor 3 | 2 |
| Air Sensor 4 | 3 |

***Note:*** *Only one air sensor can be installed in ÄKTA go.*

***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.

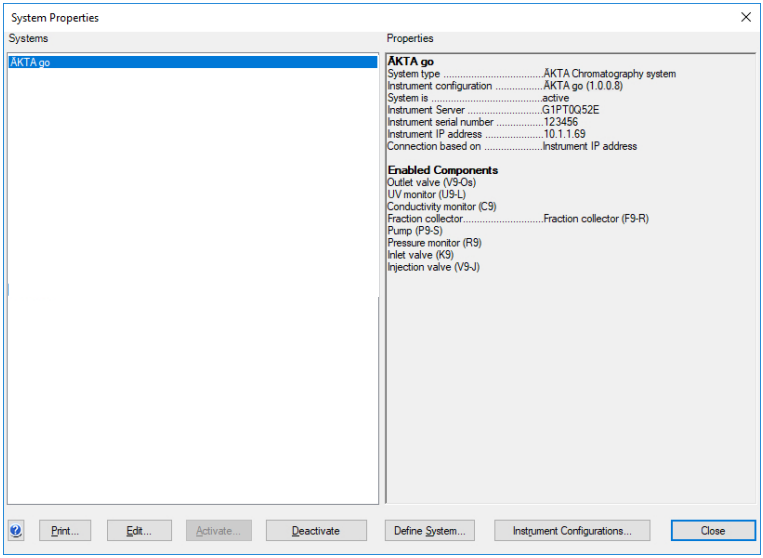
| Step | Action |
|---|---|
| 1 | Use a Torx™ T20 screwdriver to remove the screw indicated in the illustration.  |
| 2 | Use a screwdriver to turn the switch, located beneath the removed screw, to the desired number. |

# Software configuration

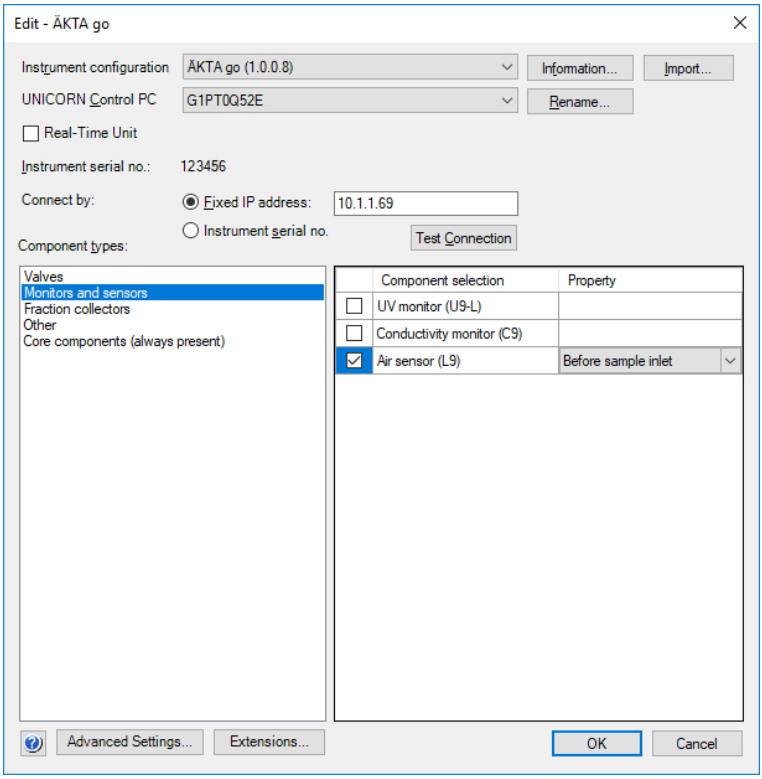
When a new air sensor has been installed, the ***System properties*** for the system has to be updated in UNICORN. The system will restart automatically when the configuration has been changed and the system can be reconnected.

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.<br>*Result*: The ***System Properties*** dialog is displayed. |



| Step | Action |
|---|---|
| 2 | Select the system of interest in the ***System Properties*** dialog and click ***Edit***.<br>*Result*: The ***Edit*** dialog is displayed. |




***Note:***

*Only active systems can be edited.*

| | |
|---|---|
| 3 | Select ***Monitors and sensors*** from the ***Component types*** list.<br>*Result:* All available monitors and sensors are shown in the ***Component selection*** list. |

***Note:***

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

| Step | Action |
|---|---|
| 4 | Click the checkbox to select the added external air sensor.<br>If using ÄKTA go, choose the appropriate location for the selected air sensor, in the ***Property*** column. |
| 5 | Click the ***OK*** button to apply the changes. |

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