

# Verification Adapter for CACE and CACE Degasser

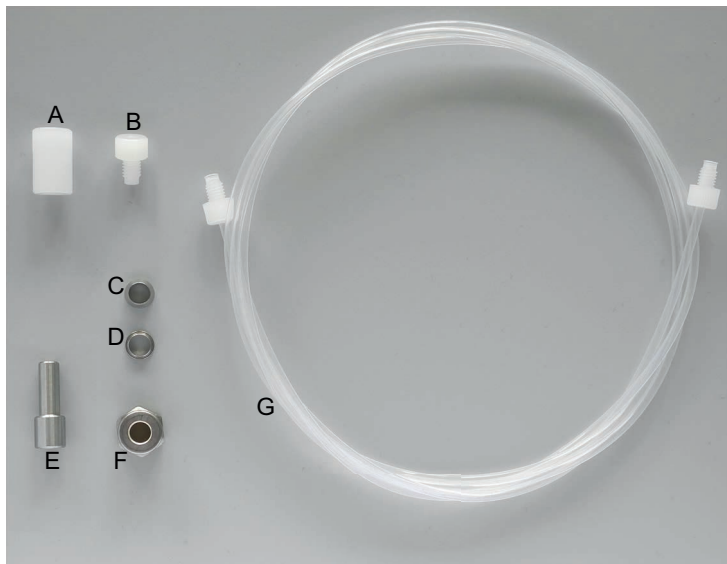
**A-83.910.130**

 **MADE IN  
SWITZERLAND**



## Contents of the Kit

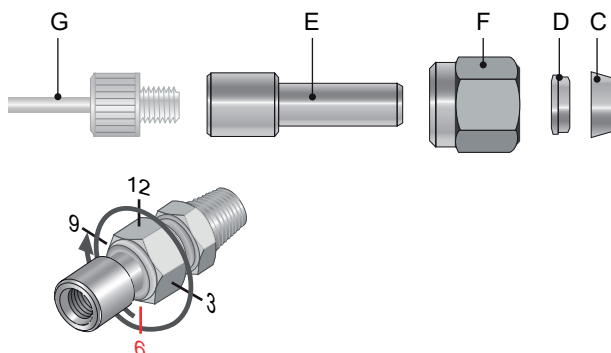
The adapter kit allows to connect an Inspector to the CACE, CACE Degasser or SWAN CACE Module in order to verify the measured values.



**A** M6 to M6 connector  
**B** Blind plug  
**C** Compression cone  
**D** Compression ferrule

**E** 1/4 inch to M6 adapter  
**F** Union nut  
**G** 170 cm FEP tube

## Sample Inlet at the Inspector

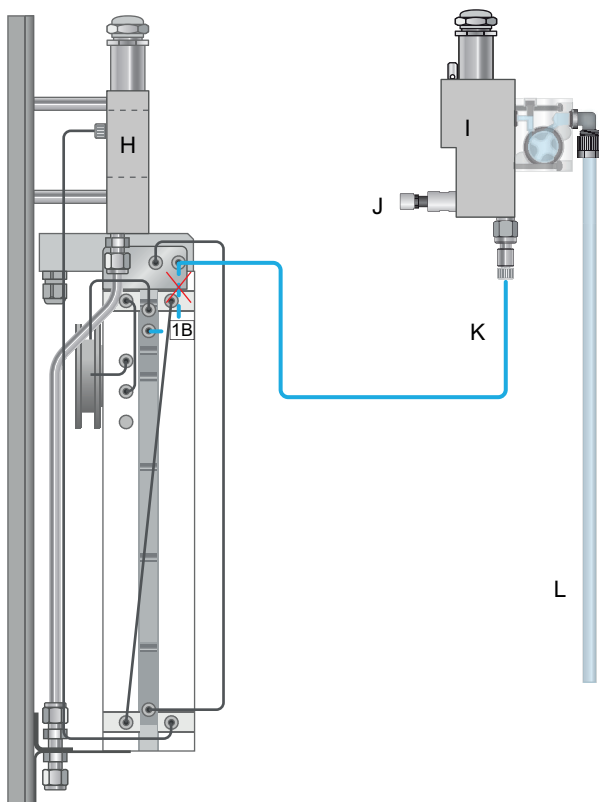


- 1 Insert the compression ferrule [D] and the compression cone [C] into the union nut [F].
- 2 Screw the union nut onto the body, do not tighten it.
- 3 Push the adapter [E] through the union nut as far as it reaches the stop of the body.
- 4 Mark the union nut at 6 o'clock position.
- 5 While holding the fitting body steady, tighten the union nut 1¼ rotation using an open ended spanner.
- 6 Connect the FEP tube [G] to the adapter [E].

## Verification Measurement with AMI-II CACE / AMI CACE / SWAN CACE Module

- 1 Stop the sample flow to the monitor by closing the corresponding valve (e.g. on the Back Pressure Regulator).
- 2 Connect the two instruments as shown in the pictures on [p. 3](#) or [p. 4](#).
- 3 Connect the sample outlet of the Inspector to the waste.
- 4 Switch on the Inspector. Start the sample flow and regulate it to 3 – 4 l/h using the flow regulating valve [J]. The flow rate is shown on the transmitter of the Inspector.
- 5 Navigate to **Installation > Sensors > Temp. compensation** and set the Inspector to the same temperature compensation as the sensor to be tested.
- 6 Wait until the value has stabilized. This takes about 5 minutes.

## Specific Conductivity



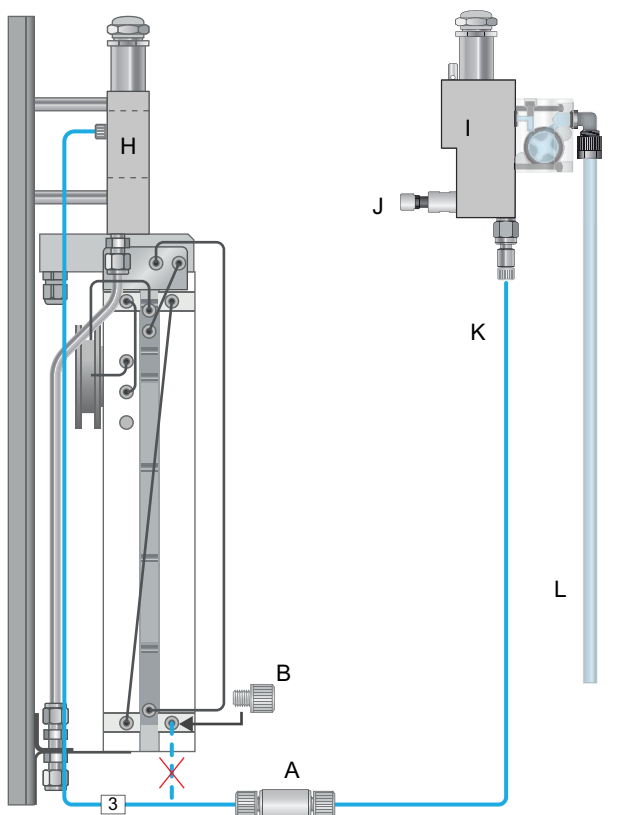
**H** Flow cell of monitor  
**I** Flow cell of Inspector  
**J** Flow regulating valve

**K** 170 cm FEP tube  
**L** Waste

### Note:

- Since no water flows through the electrode chambers, the instrument should not be operated for more than four hours with this measurement setup.
- With this measurement setup, no sample flow will be detected and a flow error will be issued. This has no influence on the measured value.

## Cation Conductivity



**A** M6 to M6 connector

**B** Blind plug

**H** Flow cell of monitor

**I** Flow cell of Inspector

**J** Flow regulating valve

**K** 170 cm FEP tube

**L** Waste

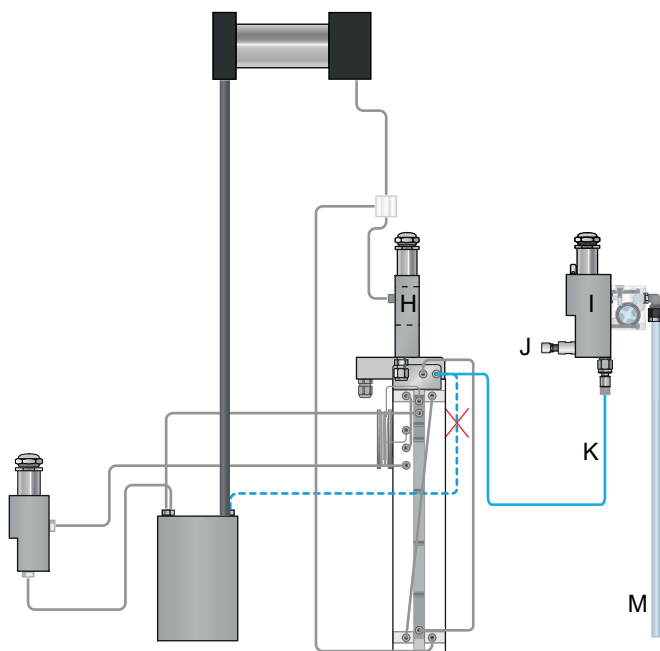
### Note:

- Since no water flows through the electrode chambers, the instrument should not be operated for more than four hours with this measurement setup.

## Verification Measurement with AMI-II CACE Degasser

### Specific Conductivity

- 1 Stop sample flow to the CACE Degasser by closing the corresponding valve (e.g. on the Back Pressure Regulator).
- 2 Connect the two instruments as shown on [p. 6](#).
- 3 Connect the sample outlet of the Inspector to the waste.
- 4 Switch on the Inspector.
- 5 Start sample flow and regulate it to 5–6 l/h using the flow regulating valve [J]. The flow rate is shown on the transmitter of the Inspector.
- 6 On the Inspector, navigate to **Installation > Sensors > Temp. compensation** and set it to the same temperature compensation as the sensor to be tested.
- 7 Wait until the value has stabilized. This takes about 5 minutes.



**H** Flow cell 1 of CACE Degasser    **K** 170 cm FEP tube  
**I** Flow cell of Inspector            **M** Waste  
**J** Flow regulating valve

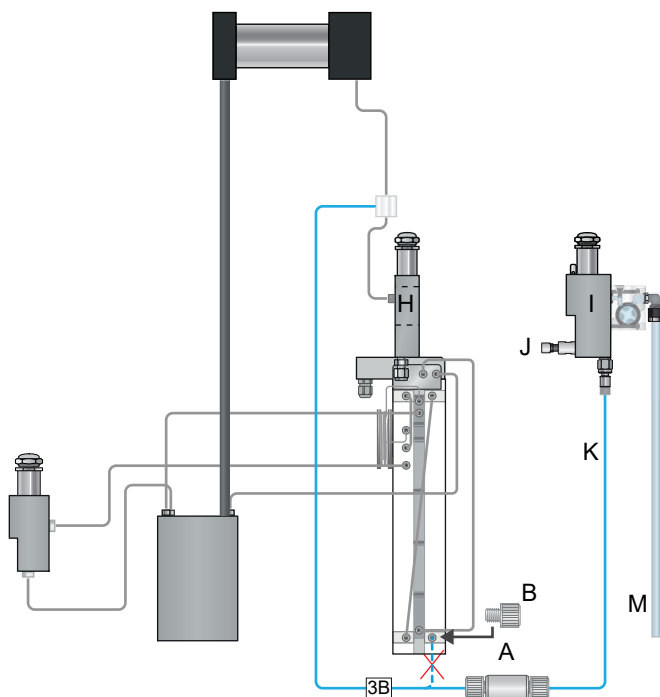
**Note:**

- Since no water flows through the electrode chambers, the instrument should not be operated for more than four hours with this measurement setup.
- With this measurement setup, no sample flow will be detected and a flow error will be issued. This has no influence on the measured value.

## Cation Conductivity

- 1 Stop sample flow to the CACE Degasser by closing the corresponding valve (e.g. on the Back Pressure Regulator).
- 2 Connect the two instruments as shown on [p. 8](#).
- 3 Connect the sample outlet of the Inspector to the waste.
- 4 Switch on the Inspector.
- 5 Close the needle valve [J].
- 6 Start sample flow to the CACE Degasser.
- 7 Slowly open the needle valve [J] until about 4 l/h flow through the Inspector.
- 8 Ensure that there are no air bubbles in the tube to the Inspector. If air bubbles are visible, reduce the flow rate through the Inspector.
- 9 On the Inspector, navigate to **Installation > Sensors > Temp. compensation** and set it to the same temperature compensation as the sensor to be tested.
- 10 Wait until the value has stabilized. This takes about 5 minutes.





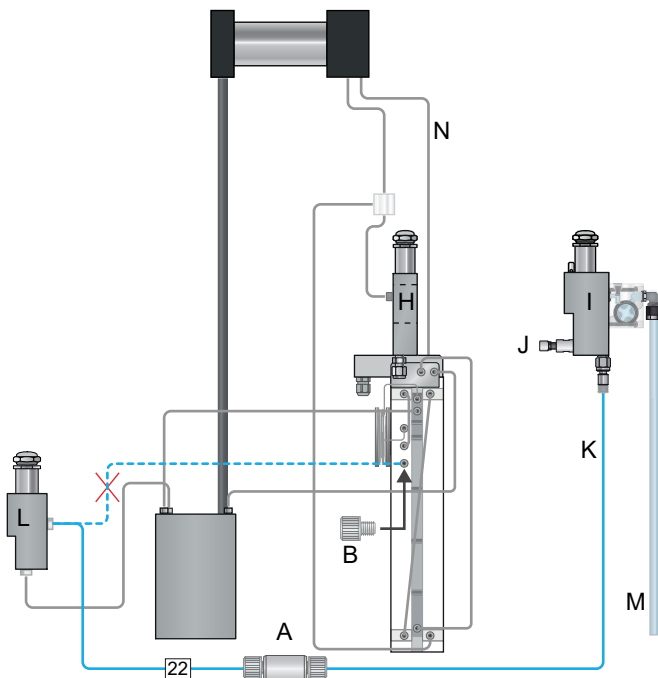
- |                                       |                                |
|---------------------------------------|--------------------------------|
| <b>A</b> M6 to M6 connector           | <b>J</b> Flow regulating valve |
| <b>B</b> Blind plug                   | <b>K</b> 170 cm FEP tube       |
| <b>H</b> Flow cell 1 of CACE Degasser | <b>M</b> Waste                 |
| <b>I</b> Flow cell of Inspector       |                                |

**Note:**

- Since no water flows through the electrode chambers, the instrument should not be operated for more than four hours with this measurement setup.

## Degassed Conductivity

- 1 Stop sample flow to the CACE Degasser by closing the corresponding valve (e.g. on the Back Pressure Regulator).
- 2 Connect the two instruments as shown on [p. 10](#).
- 3 Connect the sample outlet of the Inspector to the waste.
- 4 Switch on the Inspector.
- 5 Close the needle valve [J].
- 6 Start sample flow to the CACE Degasser.
- 7 Wait until water flows down the overflow tube [N] of the degassing unit.
- 8 Slowly open the needle valve [J] on the Inspector until the conductivity value shown on the Inspector changes and/or water drips from the outlet of the degasser.
- 9 On the Inspector, navigate to **Installation > Sensors > Temp. compensation** and set it to the same temperature compensation as the sensor to be tested.
- 10 Wait until the value has stabilized. This takes about 5 minutes.



- |                                       |  |
|---------------------------------------|--|
| <b>A</b> M6 to M6 connector           | <b>K</b> 170 cm FEP tube                 |
| <b>B</b> Blind plug                   | <b>L</b> Flow cell 2 of CACE Degasser    |
| <b>H</b> Flow cell 1 of CACE Degasser | <b>M</b> Waste                           |
| <b>I</b> Flow cell of Inspector       | <b>N</b> Overflow tube of degassing unit |
| <b>J</b> Flow regulating valve        |  |

**Note:**

- *The flow meter of the Inspector will not react to the low sample flow coming from the degassing unit.*

Swan Products - Analytical Instruments for:



**Swan** is represented worldwide by subsidiary companies and distributors and cooperates with independent representatives all over the world. For contact information, please scan the QR code.

Swan Analytical Instruments · CH-8340 Hinwil  
[www.swan.ch](http://www.swan.ch) · [swan@swan.ch](mailto:swan@swan.ch)



MADE IN  
SWITZERLAND



Instructions

