This document is a short overview of essential points in the installation. This document is a **supplement** to the full s::can manual, and does **not** replace the manual. Please consult also the instructions in the manual!

QUICK REFERENCE GUIDE

chlori::lyser – Installation

1. Installation

Installation Limits

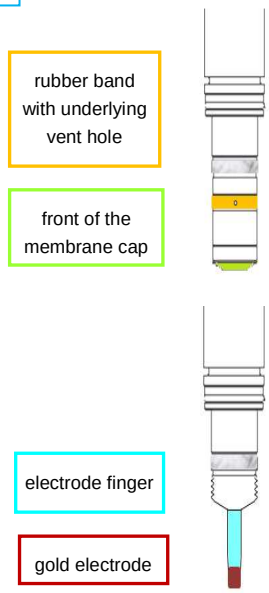
- Flow from 30 to 130 L/hPressure from 0 to 1 bar
- s::can recommends s::can flow cells (F-45-sensor, F-45-four) and s::can flow preparation unit (F-45-flow)
- For submersed installation also make sure that the flow conditions are within the specified limits

Assembling of the Sensor:

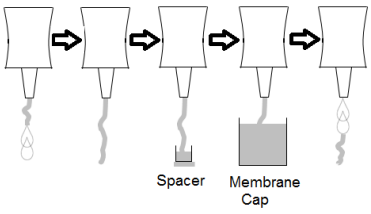
- Important notices **[A]**
  - Don't touch the front of the membrane
  - Don't touch the electrode finger or the gold electrode at the tip of it
  - Don't shake the electrolyte, store it upside-down at 15 to 25℃
  - Don't cover the vent hole with your fingers when mounting or unscrewing the membrane cap
  - Avoid air bubbles in the electrolyte when filling the membrane cap and the spacer
- Make sure that the sensor is always wetted when powered on
- Start filling by dispensing electrolyte next to the spacer and move the bottle over the spacer and the membrane cap without stopping the flow **[B]**
- Parts provided: E-507-1, E-507-2: sensor body, membrane cap, spacer, electrolyte

  E-507-3, E-507-4: sensor body, membrane cap, electrolyte, *NO spacer*
- Use a clean plastic sheet where to place the spacer and the membrane cap on
- Lift the rubber band on the membrane cap to uncover the underlying vent hole
  1) Put a drop of the electrolyte on the plastic sheet and place the spacer on it to wet it with electrolyte from both sides
  2) Fill the spacer with electrolyte **[C1]**
  3) Fill the membrane cap with electrolyte **[C2]**
  4) Holding the sensor's body push the electrode tip gently into the filled spacer **[C3]**
  5) Holding the sensor upright place the electrode-tip with the spacer into the filled membrane cap **[C4]**
  6) Screw the membrane cap onto the sensor body
  7) Place the rubber band in its original position to cover the vent hole
  8) Tightly fasten the membrane cap to the sensor body and clean up the excess of electrolyte with tap water.
- *By-pass installation via flow cell and flow preparation unit:*
  - Mount the flow restrictor F-45-flow before the flow cell
  - Connect the hose via the connecting nuts to the flow restrictor and the flow cell
  - For mounting of the sensor in the flow cell see "Installation"

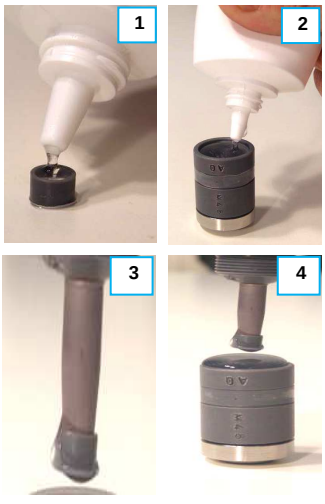
A



B



C



- *Submersed installation:* **[D]**
  - s::can recommends to use the probe carrier F-12-sensor for submersed installation
  - Make sure that the distance between the tip of the sensor and obstacles is at least 1 cm.
  - Protect cable by extension pipe OD 50mm.
  - s::can recommends the use of the fixing adapter F-15 for proper installation
  - Remove retaining clip **[D5]** from the probe carrier **[D4].**
  - Put extension pipe OD 50mm **[D6]**- supplied locally - into the probe carrier.
  - Drill two holes into the exactly positioned extension pipe. Use the two existing holes for the retaining clip in the probe carrier as guiding help (**[D7]**).
  - Snap the retaining clip into both holes of the probe carrier to fix on the extension pipe.
  - Properly layout the sensor cable within the probe carrier.
  - Push the chlori::lyser into the probe carrier.
  - Firmly fix the chlori::lyser via screw driver

Installation **[E]**

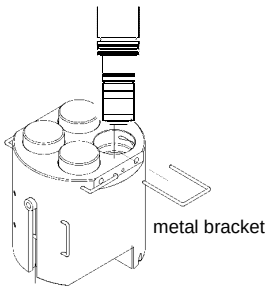
- *By-pass installation via flow cell:*
  - s::can recommends to use the sensor in a s::can flow cell to ensure constant flow conditions:
    - F-45-four, F-45-sensor
  - Insert the sensor in one of the openings of the flow cell and push it vertically down carefully until snapping indicates correct position.
  - Push the metal bracket into the two holes on the side of the flow cell to secure the sensor. The metal bracket can be inserted easily if the sensor is positioned correctly.
  - In case of a F-45-four ensure that all other openings of the flow cell are closed off with plugs or other sensors

2. Commissioning

- Connect the terminal (incl. correct earth grounding of the power supply)
- Connect the probe to the controller (plug and socket connection)
- Configure parameters using s::can operating software
- Conditioning of the sensor:
  - After first start-up or interruption of power supply: min. 20 minutes
  - Conditioning OK, when stable values are obtained. If the values are not stable after 2 hours refer to the document “Troubleshooting”
- Perform calibration (see document “Calibration”)

D

E



F-45-four