

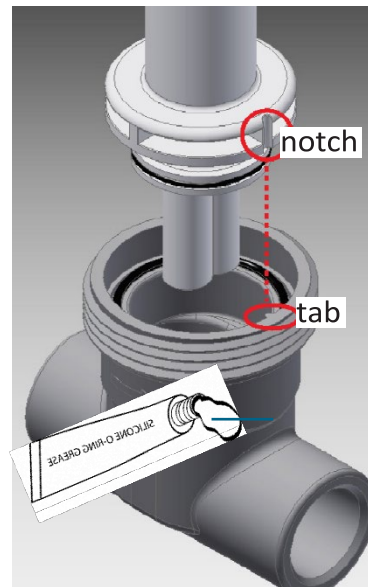
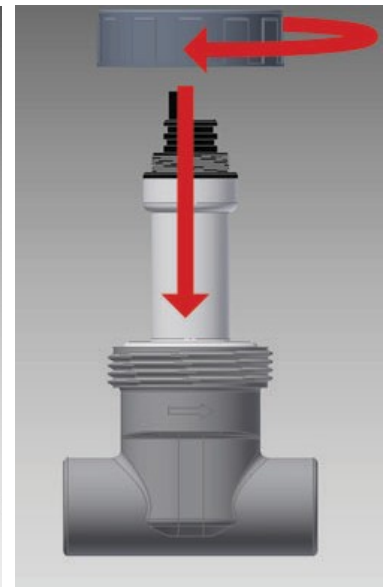
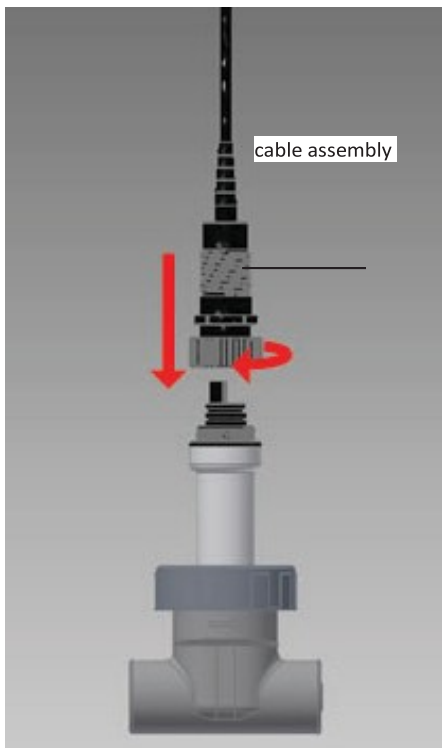
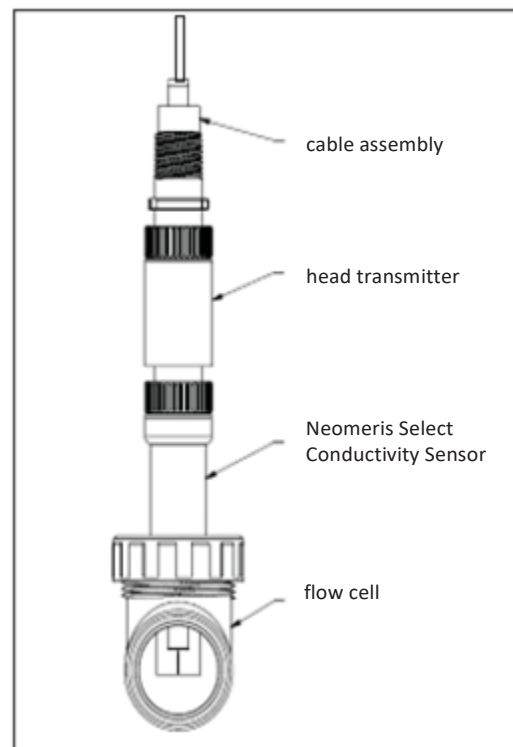
Neomeris Select EC Electrode Platform

Product Instructions

Introduction

Congratulations Your Neomeris Select conductivity sensor system installs easily by following the steps below:

- 1) Thread the flow cell into your system
- 2) Install the Select LF sensor into the T-piece by aligning the notch of the sensor with the guide pin of the flow cell (see Fig.1).
- 3) Slide nut of the tee over the conductivity sensor and tighten as shown in Fig. 2.
- 4) If using a transmitter, attach the 3m or 6m (890827 / 890828) cable as shown in Fig. 3 and you are done.
- 5) If you are using Neomeris Select signal converter module (4-20mA or Modbus), attach it to the sensor as shown in Fig. 4. Then connect the Select cable to the top of the signal converter module as shown in Fig. 3.


FIG. 1

FIG. 2

FIG. 3

FIG. 4

Product Specifications

Electrode Specifications:

NEOMERIS SELECT conductivity sensor with

c = 1 (+/-10%), PT1000 (890816),

c = 1 (+/-10%), PT100 (890817),

c = 0.1 (+/-10%), PT1000 (890825),

c = 0.1 (+/-10%), PT100 (890926)

Recommended EC measuring range:

c=0.1 0-500 $\mu\text{S/cm}$ (up to transmitter / controller)

c=1.0 0-1000 $\mu\text{S/cm}$ (up to transmitter / controller)

Temperature range:

60 deg C (140 deg F)

Pressure range:

0-100 psig (7.5 bar)

Wetted Materials:

CPVC, Graphite, Viton®

Cable Connections:

Neomeris Select EC connection cable 3 m or 6m, tinned cable ends (890827 / 890828)

| | |
|--------------------|---------------|
| Center of Coaxial: | Conductivity |
| Braid of Coaxial: | Conductivity |
| Red: | Temperature |
| Black: | Temperature |
| Green: | No Connection |

Neomeris Select connection cable 3 m or 6 m for use with 4-20mA / Modbus module, 3 m or 6m, tinned cable ends (890810 / 890811)

for use with 4-20mA (2-wire-loop-powered) electronic module:

wire color function description

Red: + 24V V

Black: - (GND)

White: Not used for 4-20mA for Modbus only

Green: Not used for 4-20mA for Modbus only

for use with Modbus electronic module:

wire color function description

Red: + 12-24V (MB 12-24V)

Black: - (GND)

White: Modbus A Connection

Green: Modbus B Connection

Mounting Hardware Electronic Module Specifications:

(890820 12-24VDC Modbus / 890818 4-20mA 0-10.000 $\mu\text{S/cm}$ / 890798 4-20mA 0-1.000 $\mu\text{S/cm}$)

Temp Range: 0-80C in Tee, 0-70C with module (derated based on pressure)

Pressure Range: 0-100psig (derated based on temp); max. 7.5 Bar

Electrode Calibration Guidelines:

Follow calibration instructions in your conductivity transmitter or controller manual. Suggested calibration is at least 2 points. One point is in air (0µS) and the other is typically >75% of the selected range. See www.heyhneomeris.de for a wide range of conductivity standard solutions. Information about the Neomeris Select Modbus modules can be found in the associated product data sheet.

| Part Nr. | Neomeris Calibration Solution, 250ml bottle with hygienic closure |
|----------|---|
| 890695 | EC 84 µS/cm, + -1% @ 25 ° C |
| 890696 | EC 147 µS/cm, + -1% @ 25 ° C |
| 890697 | EC 1413 µS/cm, + -1% @ 25 ° C |
| 890698 | EC 12880 µS/cm, + -1% @ 25 ° C |

Sensor Repair:

Do not attempt to repair any part of the sensor. If the sensor's cable is damaged, consult Gebrüder Heyl Vertriebsgesellschaft für innovative Wasseraufbereitung mbH for details.

Sensor Storage:

If long-term storage of probes is required, rinse off the sensor in clean water and dry off completely before storing.

Neomeris Select EC Overview

