

# CONNECTION EC–ELECTRODE EC5105 ON CONTROLLER EC3000

## **SENSOR**

EC-sensor with temperature compensation:

<b>Brown/Red</b>	10
<b>Orange</b>	4
<b>Yellow</b>	5
<b>Black Shield</b>	6
<b>Green</b>	6
<b>Black Transparent</b>	13
<b>Transparent</b>	Not connected

- The resistors between the numbers 3-4 and 5-6 have to be removed. When manual temperature compensation is requested, replace the resistors again.

## **POWER SUPPLY**

10/30 Volt DC :1 (+) and 2 (-) TAKE CARE!!!

## **CALIBRATION**

### ZERO:

When the sensor is not immersed into a solution, the controller should show 0. If the controller does not show 0, we can recalibrate it to 0 with set screw "ZERO".

MAKE SURE THAT THE ELECTRODE IS CLEAN AND DRY!!!!

### SPAN:

After the connection of the Controller, we need to calibrate with a buffer solution.

- 1) Immerse electrode into the calibration liquid (floating) and wait for 30 seconds (because of automatic temperature compensation).
- 2) When the value is stable, the controller can be adjusted with set screw "SENS" according to the value of the calibration liquid.

The temperature compensation reference is 20°C.

If you use the calibration fluid of, for example, Nieuwkoop BV (EC1413µS), please set the value to EC1278µS.

## **SETTING OF THE RANGE**

The range can be selected with the jumpers, see page 8 of the manual.

The standard factory setting is 2000 µS.

## **COMPLETE USER MANUAL**

Scan the QR code for the complete user manual.



**NIEUWKOOP**