

# CONNECTION EC-sensor EC5110 ON CONTROLLER EC3005

## CABLE CONNECTION

EC-sensor with temperature compensation:

<b>Transparent</b>	4 (at the same connector as the ground of 220V)
<b>Yellow and Green</b>	13
<b>Orange</b>	14
<b>Brown and Red</b>	15
<b>Black Transparent:</b>	18
<b>Black Shield</b>	Not connected

- The resistance between 13 and 14 has to be **removed**
- The resistance between 11 and 12 needs to be placed. This resistor should only be removed when a writer e.g. is connected.

## POWER SUPPLY

220 Volts : 1 and 3 TAKE CARE!!!  
Ground : 4

## 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 to 0 with set screw "ZERO".

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

### SPAN:

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

- 1) Immerse sensor into the calibration fluid (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 (EC1413 µS), please set the value to EC1278µS.

## ADJUSTING RANGE

Please contact Nieuwkoop BV if you need more information.

## SET POINT CALIBRATION

By pressing the button at the front of the controller, the display will show the set point value. This can be adjusted by pressing the button and turning the blue set screw to the right value. The red LED will turn **on** when the monitored value is above the set-point value.

If desired, this setting can be changed. Switch M should be adjusted to 1 at the bottom of the controller (instead of ON).

