

# CONNECTION EC-ELECTRODE EC5105 (SZ3274) ON CONTROLLER EC3001 (C3436)

## CABLE CONNECTION

EC-electrode with temperature compensation:

<b>Brown/Red</b>	10
<b>Orange</b>	13
<b>Yellow</b>	14
<b>Transparent</b>	Not connected
<b>Green</b>	15
<b>Black/Transparent</b>	11
<b>Black Shield</b>	15

## POWER SUPPLY

10/30 Volt DC :2 (-) and 3 (+) TAKE CARE!!!

## SET-UP REFERENCE TEMPERATURE

The reference temperature has a factory value of 20°C. If you use the calibration fluid of, for example, Nieuwkoop BV (which has a reference temperature of 25°C), please set the reference temperature to 25°C as follows:

- ZEHS:  
MODE Press this key 2 times, display will show **Set-up**
- ENT Press this key 6 times, display will show **Temp.Ref**, followed by **20°C**
- SFHS  
^ of v Press tot select the value (**25°C**)
- ENT Press to confirm, (**UPDATE** will appear)
- ZEHS:  
MODE Press 4 times to go back to the main menu

## CALIBRATION

ZERO:

When the electrode is not immersed into a solution, the controller should show 0. If the controller does not show 0, we can recalibrate it to 0 as follows.

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

- ZEHS:  
MODE Press this key for 8 seconds, display will show **Zero Cal**, followed by the actual value
- ENT Press to confirm, display will show **Zeroing** 0-5 and is ready as soon as **UPDATE** appears  
 After that **Last Cal** will appear and it is possible to change the date\*\*
- SFHS  
^ of v Press to select the date
- ENT Press to confirm, display will show **Save YES**
- ENT Press to confirm
- ZEHS:  
MODE \*\*Press to return to the main menu if you do not wish to change the date

## SPAN:

After the connection of the controller, we need to calibrate with a buffer solution. Please check if the reference temperature is 20°C or 25°C!!

- 1) Immerse electrode into the calibration fluid and wait for  $\pm 30$  seconds (because of automatic temperature compensation).
- 2) When the value is stable, the controller can be adjusted according to the value of the calibration liquid as follows:



Press this key for 8 seconds, display will show **Sens Cal**, followed by the actual value. Wait for the stabilization of the value




of  Press to select the value, display will show value (xx.xx.mS)



Press to confirm, display will show **Wait** and is ready when **UPDATE** appears. After that **Last Cal** appears and, if desired, the date can be changed\*\*



of  Press to select the date



Press to confirm, display will show **Save YES**



Press to confirm



\*\*Press to return to the main menu, without changing the date

## **ADJUSTING RANGE**




Press this key 3 times, display will show **Config.**



Press this key 3 times, display will show **EC SCALE**, followed by the actual value



of  Press to select the value



Press to confirm, display will show **UPDATE**



Press 3 times to return to the main menu