CONNECTION EC–SENSOR EC5105 ON CONTROLLER EC3001

CABLE CONNECTION

EC-sensor with temperature compensation:

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

POWER SUPPLY

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

SET-UP REFERENCE TEMPERATURE

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

ZERO **MODE** Press this key 2 times, display will show **Set-up**

ENT Press this key 6 times, display will show **Temp.Ref**, followed by **20ºC**

SENS **∧** or **∨** Press to select the value (**25ºC**)

ENT Press to confirm, (**UPDATE** will appear)

ZERO **MODE** Press 4 times to go back to the main menu

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 as follows.
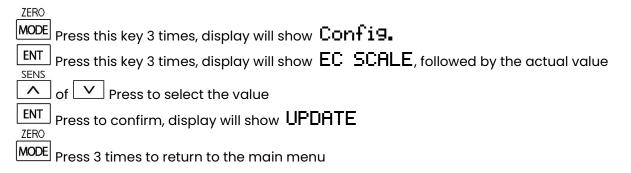MAKE SURE THAT THE SENSOR IS CLEAN AND DRY!!!!

ZERO **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

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SPAN:

After the connection of the controller, we need to calibrate with a buffer solution. Please check if the reference temperature is 20ºC or 25ºC!!
1) Immerse sensor into the calibration liquid and wait for ± 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:

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

SENS
[∧] or [∨] Press to select the value, display will show value (**xx.xx.mS**)

[ENT] Press to confirm, display will show **Wait** and is ready when **UPDATE** appears.

ADJUSTING RANGE

ZERO
[MODE] Press this key 3 times, display will show **Config.**

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

SENS
[∧] of [∨] Press to select the value

[ENT] Press to confirm, display will show **UPDATE**

ZERO
[MODE] Press 3 times to return to the main menu

COMPLETE USER MANUAL

Scan the QR code for the complete user manual.

NIEUWKOOP