

2x2 Conductivity: C2x2-AQ2-aq2

This MakesSensor 2x2 conductivity probe comes pre-assembled out of the box ready to retrofit with an Aquatrac 2Smart manifold.

Its ATC (temperature compensation element) allows for connection to Aquatrac 2Smart (latest software version 1.24) only.

To install:

1. Turn off power to controller, close isolation valves and relieve pressure from manifold.
2. Inside controller enclosure, disconnect the 4 conductivity wires from controller board and pull the wires out of the controller - please remember their locations as you'll reconnect the conductivity probe to the exact same inputs later.
3. Loosen existing conductivity probe retaining nut and pull it straight out until it is independent from the wire. You will use it for locking the new conductivity probe in place.
4. Remove existing conductivity probe from the manifold.
5. Insert the retaining nut along the new probe cable until it reaches the probe body, as illustrated on the top right photo.
6. Insert the new probe into the manifold after making sure the necessary washer is set on the probe.
7. Tighten retaining nut on top of probe.
8. Insert the probe 4-wire, grey cable into the controller.
9. Next, connect the probe's 4 wires to the controller conductivity inputs, which you identified in step 2 (see photo on left). White and Green are for temperature, while Red and Black are for conductivity.
10. Open isolation valves & check for leaks.
11. Check the controller display for temperature & conductivity, and calibrate as needed.
 - a. Temperature: it's normal the displayed temperature before calibration is different from actual (the temp sensor is modified for flow switch control). So, **YOU MUST FIRST CALIBRATE TEMPERATURE** by entering the actual temp in the following submenu: Enter/Setup & Setpoints (2)/Configure (4)/Set system options (3)/ Custom options (2)/Calibrate temperature (3).
 - b. Conductivity: It's normal the probe's conductivity display before calibration is different from the conductivity of the standard solution or obtained with a hand-held conductivity meter. The probe cell constant is not standard.
12. Finally, test the flow switch feature of the sensor by closing/opening isolation valves



MAINTENANCE INSTRUCTIONS

Occasionally the flat microchip at the very tip of the probe may become coated. It is recommended to clean it regularly for optimum performance.

NEVER USE ABRASIVE OR SHARP OBJECTS TO CLEAN THE SENSOR TIP

- To clean the sensor, remove it from the manifold and wipe the flat microchip with a clean cloth.
- For stubborn deposits, use a fine brush or dip the sensor tip in a mild solution of muriatic acid.
- To remove oil deposits, the sensor can be agitated in a solution of liquid soap (such as Joy, Palmolive, etc.) and water.

NOTES: This sensor is for indoor use only - No direct sunlight.

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