

CS9-11 Resistivity Sensor Substitute Instructions

For use with the 900 Series Multi-Parameter Monitor/Controller COND/RES1 and COND/RES2 input channels set to resistivity.

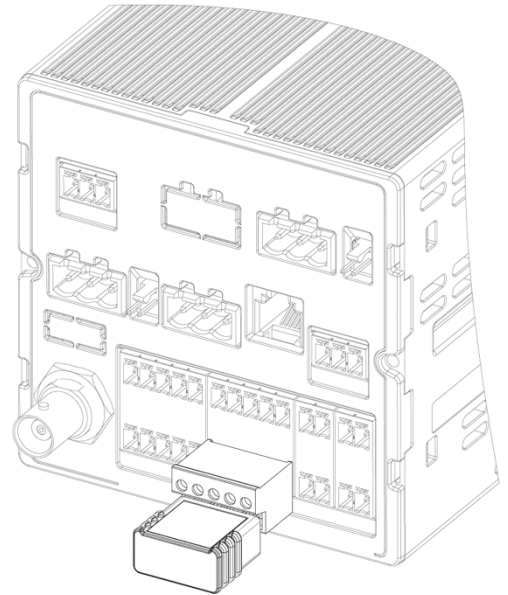


Remove power to the instrument's power input and all relays by interrupting them at the mains power panel or circuit breakers before servicing the back panel or any of the wiring/connectors. Failure to do so could cause damage to the instrument and be harmful or fatal to personnel. Only qualified personnel should install or service electrical equipment.

The best way to verify the 900 Series resistivity circuitry using a CS9-11 is to verify the measurement value while the instrument is in USER mode with temperature compensation disabled, and calibration set to FAC CAL.

If you have custom cable length, cell constant, and/or tempco programmed in for this input channel, it is advisable to record those settings to reprogram after verification with the sensor substitute.

1. Turn the system's power supply OFF.
2. Remove the resistivity sensor connector from the back panel.
3. Plug in the Sensor Substitute.
4. Turn the system's power supply ON.
5. Set the calibration to FAC CAL.
From the desired input channel's "Detailed Operating Screen":
 - a. Tap the **ADJUST** button to enter EDIT Mode.
 - b. Tap the resistivity measurement value displayed on the screen to enter Calibration Mode.
 - c. Tap the **FAC CAL** button.
 - d. Tap the **ACCEPT** button to accept the FAC CAL and exit Calibration Mode.
6. Set the Solution Type to USER:
 - a. Tap the **ADJUST** button to enter EDIT Mode.
 - b. Tap the Solution Type button on the bottom left of the screen.
 - c. Tap the "User" field.
 - d. Tap the **ACCEPT** button.
7. Set the User Tempco to 0%/°C:
 - a. On the "Enter User Tempco" screen, enter 0.00 then tap "Enter".
8. Set the sensor cable length to zero:
 - a. Tap the **ADJUST** button to enter EDIT Mode.
 - b. Tap the Input Channel button on the top center of the screen.
 - c. Tap the **ACCEPT** button to bypass sensor selection.
 - d. Tap the "Cable Length" field.
 - e. Using the keypad, change the cable length to 0.00 then tap "Enter".
9. Set the Cell Constant to 0.05000:
 - a. Tap the "Cell Constant" field.
 - b. Using the keypad, change the cell constant to 0.05000 then tap "Enter".
 - c. Tap the **ACCEPT** button.
10. Verify the displayed readings (20.0 MΩ ±0.1 and 25.7°C ±0.1).
11. Turn the system's power supply OFF.
12. Remove the Sensor Substitute from the back panel.
13. Reconnect the resistivity sensor.
14. Turn the system's power supply ON.
15. Reprogram the correct sensor cable length:
 - a. Tap the **ADJUST** button to enter EDIT Mode.
 - b. Tap the Input Channel button on the top center of the screen.
 - c. Tap the **ACCEPT** button to bypass sensor selection.
 - d. Tap the "Cable Length" field.
 - e. Using the keypad, enter the cable length, then tap "Enter".
16. Reprogram the Cell Constant:
 - a. Tap the "Cell Constant" field.
 - b. Using the keypad, enter the sensor's cell constant, then tap "Enter".
 - c. Tap the **ACCEPT** button.
17. Reprogram the desired solution type:
 - a. Tap the **ADJUST** button to enter EDIT Mode.
 - b. Tap the Solution Type button on the bottom left of the screen.
 - c. Tap the desired solution type.
 - d. Tap the **ACCEPT** button.
18. Verification is complete. Tap the gray measurement value to return to normal operating mode.



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