

Re: Conductivity sensors

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Why connect the grounds? Even if you have to connect them, use inductors. The probes seems to be AC shorted.

I have the grounds connected simply because the A/D board is set up as single-ended, i.e., it's reading each channel relative to common ground. I can rewire some things to route the ground of each signal through the multiplexer and run the board in differential mode.

I see what you are saying about AC noise, although I'm new enough at this that I have a hard time wrapping my brain around AC. Why is it that the current would drop in a shorted situation? I would have guessed, though without knowing why, that it would have increased...

Thanks for giving me some things to try.

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