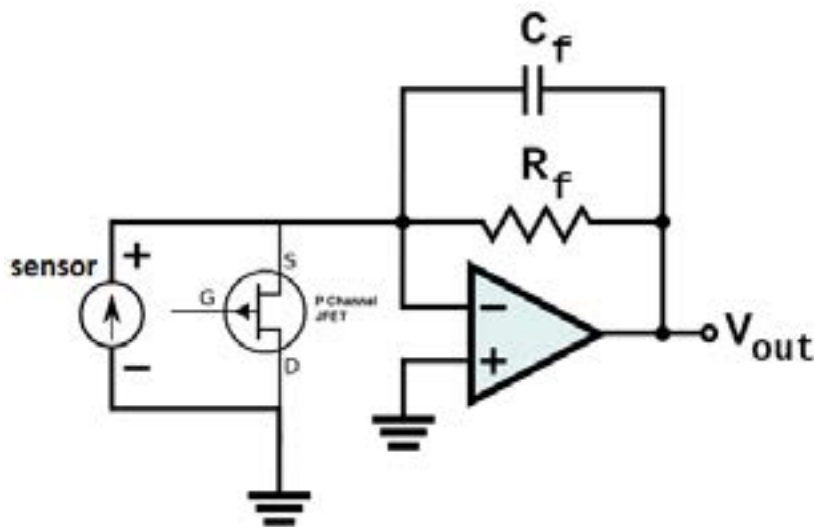


Aii Electrochemical Sensor circuit example

- The gain (Volts per Amp) is equal to R_f (feedback resistance in Ohms). R_f is chosen to scale the sensor output to use all or most of the voltage range of the amplifier and analog-to-digital converter at full-scale range.
- For a multirange analyzer, a multiplexer or digital potentiometer is needed to allow the microcontroller to select a gain (R_f).
- C_f is provided to reduce noise.
- A J-FET transistor should be used to short the sensor terminals together when the analyzer is unpowered. The Gate, (G) of the J-FET should therefore be connected to the circuit's positive power supply voltage.
- V_{out} feeds into an analog-to-digital converter to be read by a microcontroller.



! CAUTION

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