

Re: Op Amp – Design question

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 - *Date:* 06 Dec 2005 21:51:38 GMT
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Well, with taking the output of the envelope detector and passing that to a difference amp as described in my OP, I am amping ~150 times bringing the output of my amp to ~3–4 volts. It isn't very noisy and I am able to sample and get the resolution I need. The sensor is actually functioning perfectly. My only issue is in practice, I won't have a \$4000 programmable PS available to null out the DC component at the difference amplifier.

Being a digital guy, what I was thinking was to take the steady state out of the envelope detector, passing it through a A/D, and storing it a small micro. Then I could use a SW programmable pot or similar to "null" the effect of the DC component into the difference amp. This approach will work, but I figured I would investigate an analog equivalent that would be cheaper as well as take up less real estate.

Dave

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