

Re: Need to design precision 5mA constant current source (wide temp range).. need help

Source: <http://sci.tech-archive.net/Archive/sci.electronics.basics/2004-11/1183.html>

From: John Popelish (jpopelish_at_rica.net)

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stevo wrote:

>
> *Hi,*
>
> *I need to design a 5mA constant current source for a Wheatstone bridge*
> *application. The problem is the source needs to be +- 3% accurate and*
> *hold that accuracy over a -40 C to +85 C temperature range.*
>
> *I have thought about using a simple FET CCS, but don't have much*
> *experience and am not sure if I can make it accurate enough.*
>
> *Can any of you more experienced guys point me in the right direction?*
>
> *Thank You*
> *Stephen*
>
> *Ohter info : V available +15V; bridge resistance ~ 850 ohms*

Are you sure that a constant voltage across the bridge would not improve its accuracy?

--
John Popelish