

Re: Controlling 220V ac using 5V analog signal

Source: <http://sci.tech--archive.net/Archive/sci.electronics.design/2005-11/msg01264.html>

- *From:* "scada" <scada@xxxxxxxxxxxxxx>
 - *Date:* Mon, 14 Nov 2005 15:29:34 -0500
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"shehry" <shehry@xxxxxxxxxx> wrote in message
news:1131879667.030421.112660@xx
> sorry if i couldnt explain it correctly.
>
> actually we were trying to make a motor speed controller. i was trying
> to use a sewing machine motor.
>
> i thought of generating an analog signal using a microcontroller and
> using that signal i wanted to control the amount of voltage that would
> go to the motor at the end of the day.
>
> in other words i was trying to replace the pedal of the sewing machine
> by an electric signal.
>
> hopefully it clears up the mess i created above :)
>

I have actually made this very thing! I restored a 1922 Singer machine and cabinet. I used an SCR triggered off the positive peak through a diode and a pot across an RC circuit to trigger the gate (that's the basic of it, I can post the schematic if you need it). This is your basic light dimmer circuit, only they use a triac. I was not interested in speed, or torque at the time the unit was strictly for show. An off the shelf light dimmer should work for you, just make sure the motor is the "Universal" type (has brushes - AC & DC).

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- *References:*
 - ◆ [Controlling 220V ac using 5V analog signal](#)
◇ *From:* shehry
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