

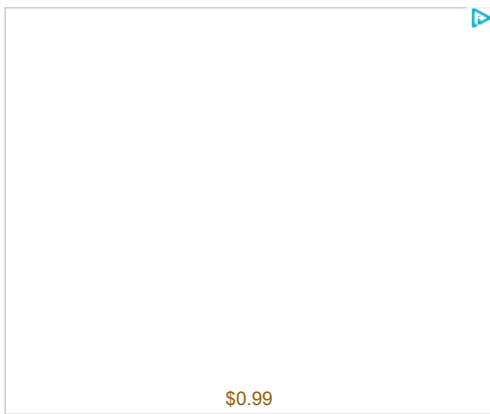

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DS1802 Digital Volume Control using microcontroller

 Posted by: **AVR Engineer** Posted date: **November 08, 2012** In: **AVR ATmega Projects, Metering - Instrument Projects**

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Part list:

1x AT90S1200
 1x DS1802 (Dallas)
 1x 78L05
 1x 8MHz ceramic resonator
 1x 22pF
 1x 47uF/16V
 1x 47n polycarbonate
 4x 100n multilayer
 1x 100 ohm
 1x 10k ohm
 1x 820 ohm
 1x 100k trimpot
 1x 10k lin. potmeter



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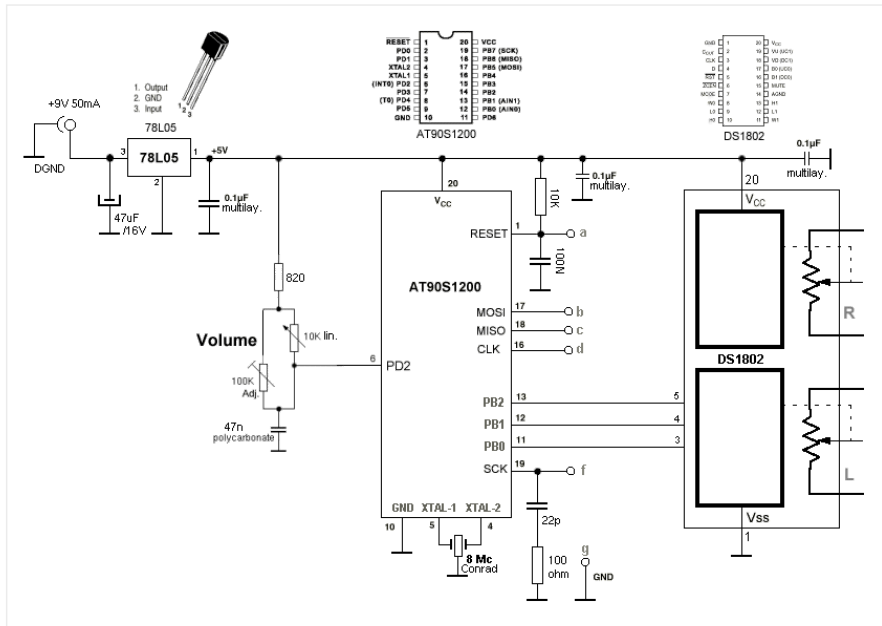
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Digital Controlled Potmeter:

(also known as XDCP 's or Digipots)

With this circuit you're able to control a Dallas DS1802 digipot with a normal potmeter. The DS1802 has 64 wiper positions (6bit), each step is -1dB attenuation, and is controlled by serial data, thus easy to steer with a microcontroller.

The software....

Here you can [download](#) the datasheet of the DS1802.

Here the [hex-dump](#) (GNU). You can upload this hex data into the AVR with this [programmer](#).

For more detail: [DS1802 Digital Volume Control using microcontroller](#)

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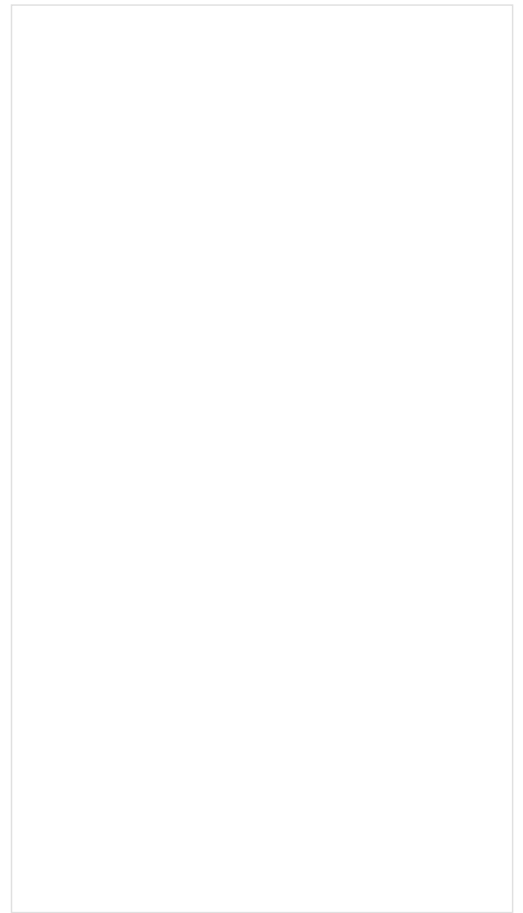
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