

# Re: Using garage door remotes as a voting system?

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*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.design/2005-04/msg01823.html>

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- *From:* "Steve" <[popmusic@xxxxxxx](mailto:popmusic@xxxxxxx)>
  - *Date:* 9 Apr 2005 14:11:45 -0700
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Thanks for the replies. I'd like to do this on as low a budget as possible (under \$1000?, under \$500? :-)), and set it up for around 20 people to begin, with the option to expand. Audience members should be able to vote at the same time and shouldn't be counted twice if they press the button twice.

There's a keychain transmitter at <http://www.automicro.com.tw/> that is "rolling code" which I understand means that it creates a unique code every time it's pressed. There's also a shareware program called "girder" that I think I could use.

John, what are your rates like? Can I save some money by buying stuff from <http://www.automicro.com.tw> ?

Agains thanks for any info or suggestions as to how to what I need to buy to put this together.

John Fields wrote:

- > On 9 Apr 2005 12:32:36 -0700, "Steve" <[popmusic@xxxxxxx](mailto:popmusic@xxxxxxx)> wrote:
- >
- >>I'm putting together a talent show and want to have the audience vote
- >>for the contestants (on a scale of 1 to 4 would be fine) using wireless
- >>remotes (maybe even garage door openers?) The results would be
- >>received through a computer system and then projected on a screen.
- >>Does anyone have any suggestions as to how such a system might be put
- >>together? Someone told me I should use a heterodyning receiver. I
- >>found a site that seems to have some of the elements:
- >><http://www.automicro.com.tw/> Any ideas as to which samples I should
- >>buy? Thanks for any info or suggestions!
- >
- > ---
- > Have you thought about what will happen if all the voting units
- > (remotes) are on the same frequency and a couple (or a few, or a lot)
- > of the audience members transmit their votes at the same time?
- >

## Re: Using garage door remotes as a voting system?

- > The way I'd do it would be to have the remotes be transponders which
- > are polled by the master. Assign an address to each remote and then
- > have it send its data when the master sends that address. After the
- > master receives the data it sends that address again, followed by a
- > signal which resets the remote so that the data stored in the remote
- > will be erased and not sent out erroneously during the next round of
- > voting but before that audience member votes again. Once cleared,
- the
- > remote sends the "cleared" signal, letting the master know that it's
- > ready for next time. The master then goes to the next address and
- > goes through the same drill, and when it's done there goes through
- the
- > rest of the remotes until all the votes are counted and all the
- > remotes cleared. Another nice thing to do would be to have the
- master
- > send out a "time to vote" signal to all of the remotes which would
- > light an LED on the remote when it was time to vote.
- >
- > Email me if you'd like me to de\$ign up a system for you.
- >
- > --
- > John Fields
- > Professional Circuit Designer

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### • Follow-Ups:

- ◆ [Re: Using garage door remotes as a voting system?](#)  
◇ From: Mike Harrison
- ◆ [Re: Using garage door remotes as a voting system?](#)  
◇ From: bigcat

### • References:

- ◆ [Using garage door remotes as a voting system?](#)  
◇ From: Steve
- ◆ [Re: Using garage door remotes as a voting system?](#)  
◇ From: John Fields

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