

## Re: Resistor vs transformer

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*Source:* <http://sci.tech-archive.net/Archive/sci.electronics.design/2006-02/msg01560.html>

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- *From:* Weinberger Hans <[weinberger@xxxxxxx](mailto:weinberger@xxxxxxx)>
  - *Date:* Wed, 08 Feb 2006 09:26:30 +0100
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On 7 Feb 2006 13:45:00 -0800, [bill.sloman@xxxxxxx](mailto:bill.sloman@xxxxxxx) wrote:

Weinberger Hans wrote:

On 7 Feb 2006 06:49:00 -0800, [cs\\_posting@xxxxxxxxxxxx](mailto:cs_posting@xxxxxxxxxxxx) wrote:

Weinberger Hans wrote:

Thanks and all those who gave "useful" replies.  
Its a wireless receiver unit which calls the fire department in case of a fire.

You probably need to figure out how it converts 120v to whatever it needs. It may be that you could rip out its power supply and substitute one for your line voltage.

Is that time/cost efficient?

No. Get a transformer with a dual 115V+115V primary, connect the primaries in series, and hook your fire alarm across one of the primaries. Ignore the secondary windings.

Cost goes by size, but 6VA transformers have rotten regulation. The 2002 Farnell catalogue lists a 12VA part (stock number 159-591) which cost 6.58 euro and would presumably do the job, You'd have to put the transformer in a box to protect the outside world.

Farnell have a whole range of boxes - I'd probably go for the 525-625 (which cost another 5.65 euro back in 2002), and mount the transformer

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on the lid. You might be able to get cute and mount the fire-detector on the other side of the same lid (leaving it outside the box).

This ought to work – the transformer will run a bit warm, but it would run warm without any load at all.

I easily/cheaply find dual 230V at the primaries in my area. I guess it would do the job too.

Hans

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