

Re: Calibration Of Electronic Equipment In The Home Workshop

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- *From:* Jim Yanik <jyanik@xxxxxxxx>
 - *Date:* 4 Mar 2007 20:07:37 GMT
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"David L. Jones" <altzone@xxxxxxxx> wrote in
news:1172992110.311963.296760@xx:

On Mar 4, 12:38 pm, MassiveProng
<MassivePr...@xx> wrote:

On 2 Mar 2007 15:09:30 -0800, "David L. Jones" <altz...@xxxxxxxx>
Gave us:

Which is why you do it for each range and then spot check it
to see
that there is no funny business. Perfectly valid technique for
home
calibration of a scope vertical scale.

Dave :)

It doesn't matter how many "places" you "spot check" it, you are not
going to get the accuracy of your comparison standard on the device
you intend to set with it. What you do is take the basic INaccuracy
of the device needing to be set, and add to it the basic INaccuracy of
the standard to which you are setting it. You CANNOT get any closer
than that. So, a 0.5% meter, and a 0.5% scope cannot be used together
to make the scope that accurate. You need a *finer* standard than the
accuracy level you wish to achieve.

You need to understand that as a basic fact, chucko.

LMAO!

If I use 0.5% accurate meter to adjust a something, then the accuracy
of that adjusted device at that point in time at that adjusted value
becomes 0.5%.

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Until you turn off the "something"(DUT),the ambient temp changes,or some hours pass(drift);then it reverts to it's specified accuracy.

4X better is the minimum for a cal standard over the DUT.
Any less has to be noted on the cal certificate.

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