

Re: Q about DSO (Instek GDS-2102)

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- *From:* Hammy <spamme@xxxxxxxxxxxx>
 - *Date:* Sat, 28 Apr 2007 13:30:17 GMT
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On Fri, 27 Apr 2007 21:05:58 -0500, "Anthony Fremont"
<spam-not@xxxxxxxxxxxx> wrote:

Hammy wrote:

I am purchasing a DSO I found this Instek GDS-2102.

<http://www.signaltestinc.com/ProductDetails.asp?ProductCode=GDS-2102>

Which seems very comparable to TEKS TDS2012B (Only \$300 cheaper).

What I find odd is that I also found this (DSO Comparison chart)

http://www.wittig-technologies.com/english/start_engl.htm

Which states that GDS-2102 which claims a 1 GS/s Real Time Sampling Rate, has only a 100MSa/s per channel on a two channel scope this equates to only 200MSa/s. How can they claim the 1 GS/s Real Time Sampling Rate?

If someone could enlighten me I would appreciate it. I already tried there techs as well as the manufacturers web site. Either no answer or they couldn't explain it. Read the manual online still no explanation.

Hmm..... I can't tell you anything first-hand about the GDS scopes, but I do like my new Rigol DS-1102C.

http://www.rigolna.com/products_osc_DS1000.aspx

US\$1000 Download the manual and check it out. Their tech support quality (that I've seen with two things I contacted them about) was even better than the manual. Rigol makes scopes for Agilent. This line right here is the same as the Agilent 3000 series:

http://www.rigolna.com/products_osc_DS5000.aspx

The DS1000 series is the newer line with 1M buffer and thinner profile. Check out the math capabilities of the scopes.

Not affiliated yada yada, just happy so far. Full VGA would be nice though.
;-) Whatever you get, give a report. :-)

Hi Anthony:

I'm glad you are happy with your scope hopefully I will be so fortunate one day.

Thanks for your response. I sent another letter to GW Instek asking for an explanation, still no response. I just found the comparison table after I ordered the GDS-2101. I am hoping they respond before it arrives if the scope really does only have 100MSa/s real time per channel it's going right back without even opening the package. I'll fork out the extra \$300.00 for the Tek which does have the 1GSa/s per channel.

These DSO manufacturers are getting ridiculous analog BW equivalent is IMHO when the sampling rate is at least ten times the fundamental signal. How some of these manufacturers are claiming these high equivalents Analog BW at these measly sampling rates is beyond me. Equivalent time sampling is another crock of shit you can use the cheapest A/D converters and then just have them refresh the screen at whatever rate you want and then say my scope has X equivalent Analog BW. And even at that the image your looking at still might not be a very accurate representation of the real signal, particularly if it is a non-repetitive waveform, are any intermittent transients, HF oscillations are present (the whole reason one uses a scope is to search for events like that).

I'm posting this to inform others verify that the advertised real time sampling rate is per channel if you don't get a timely response chances are it's not.

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