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Subject: Anyone know if "+/- 10 ppm" is good for word clocks?

Posted by [Carl Amburn](#) on Wed, 02 Aug 2006 00:51:37 GMT

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---

That's the spec for the Hosa wdc-427.

thanks,  
-Carl

---

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Subject: Re: Anyone know if "+/- 10 ppm" is good for word clocks?

Posted by [Deej \[1\]](#) on Wed, 02 Aug 2006 02:20:16 GMT

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I'm not sure what the "ppm" stands for, exactly (parts per million comes to mind though I'm not sure how that would apply to a clock signal), but it has to do with the internal clock accuracy-the Lucid GENx192 has internal clock

<http://www.sweetwater.com/store/detail/GENx192/>

The Rosendahl Nanosync specs are :  
temperature compensated VCXO; +/- 0.5 ppm @ ambient temperature 15 - 30 Celsius

<http://www.rosendahl-studioteknik.de/nanosyncs.html>

This Rosendahl unit is a more expensive WC than the Lucid.

I'm using a Lucid GENX6 in my studio which probably has about the same specs as the GENX192 and it's a step up from the Paris clock to be sure.

Hosa WC is \*really\* superior in accuracy to a \$700.00 Lucid WC is another question altogether but then again, the HOSA unit is very basic...no frills.

..

I'd say that if you're hearing a positive difference, don't sweat it. After all, we all know that a \$1000.00 Paris rig sounds better than a \$40,000.00 PTHD rig so there are a few nice surprises out there still.

If it sounds right, it "is" right.

;o)

Deej

a "Carl Amburn" <carlamburn@hotNOSPAMmail.com> wrote in message news:44cff599\$1@linux...

> That's the spec for the Hosa wdc-427.

>

> thanks,

> -Carl

>

>

---

Subject: Re: Anyone know if "+/- 10 ppm" is good for word clocks?

Posted by [Carl Amburn](#) on Wed, 02 Aug 2006 03:02:13 GMT

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Interesting. I think this little Hosa is a winner. I'm certainly going to hang on to the little guy.

-Carl

"DJ" <animix\_spam-this-ahole\_@animas.net> wrote in message news:44d00c3c@linux...

> I'm not sure what the "ppm" stands for, exactly (parts per million comes to

> mind though I'm not sure how that would apply to a clock signal), but it has

> to do with the internal clock accuracy-the Lucid GENx192 has internal clock

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>

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\$80.00

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> Deej

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>> thanks,

>> -Carl

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>

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Subject: Re: Anyone know if "+/- 10 ppm" is good for word clocks?

Posted by [Martin Harrington](#) on Wed, 02 Aug 2006 08:25:16 GMT

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---

PPM = Peak Programme Meter.

--

Martin Harrington

[www.lendaneer-sound.com](http://www.lendaneer-sound.com)

"DJ" <animix\_spam-this-ahole\_@animas.net> wrote in message  
news:44d00c3c@linux...

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Subject: Re: Anyone know if "+/- 10 ppm" is good for word clocks?

Posted by [Rich\[3\]](#) on Wed, 02 Aug 2006 20:02:08 GMT

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---

Thanks for the info - \$80 and it sounds better than the Paris clock - outstanding!!  
Anyone else have one yet?

"Carl Amburn" <carlamburn@hotmail.com> wrote:

>That's the spec for the Hosa wdc-427.

>

>thanks,

>-Carl

>

>

---

Subject: Re: Anyone know if "+/- 10 ppm" is good for word clocks?

Posted by [Carl Amburn](#) on Wed, 02 Aug 2006 20:12:49 GMT

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---

Ok, after a little research - DJ's guess is correct. ppm stands for "parts per million", and is a measurement of oscillation - the amplitude or amplitude variance.

-Carl

"Martin Harrington" <lendan@bigpond.net.au> wrote in message  
news:44d06029@linux...

> PPM = Peak Programme Meter.

> --

> Martin Harrington

> www.lendaneer-sound.com

>

> "DJ" <animix\_spam-this-ahole\_@animas.net> wrote in message

> news:44d00c3c@linux...

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> > ;o)

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> > Deej

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> >> thanks,

> >> -Carl

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Subject: Re: Anyone know if "+/- 10 ppm" is good for word clocks?

Posted by [Carl Amburn](#) on Wed, 02 Aug 2006 20:52:32 GMT

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Yeah - and again, I picked mine up for \$64 at aalive.com (and got a rackmount chassis for \$12 more).

-Carl

"rich" <studiodog\_99@yahoo.com> wrote in message news:44d104c0\$1@linux...

>

> Thanks for the info - \$80 and it sounds better than the Paris clock - outstanding!!

> Anyone else have one yet?

>

> "Carl Amburn" <carlamburn@hotmail.com> wrote:

> >That's the spec for the Hosa wdc-427.

> >

> >thanks,

> >-Carl

> >

> >

>

---

Subject: Re: Anyone know if "+/- 10 ppm" is good for word clocks?

Posted by [Tony Benson](#) on Wed, 02 Aug 2006 21:58:45 GMT

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Just ordered.

Tony

"rich" <studiodog\_99@yahoo.com> wrote in message news:44d104c0\$1@linux...

>

> Thanks for the info - \$80 and it sounds better than the Paris clock - outstanding!!

> Anyone else have one yet?

>

> "Carl Amburn" <carlamburn@hotmail.com> wrote:

>>That's the spec for the Hosa wdc-427.

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Subject: Re: Anyone know if "+/- 10 ppm" is good for word clocks?  
Posted by [Aaron Allen](#) on Thu, 03 Aug 2006 00:22:19 GMT  
[View Forum Message](#) <> [Reply to Message](#)

Nope, but I've ordered it.  
AA

"rich" <studiodog\_99@yahoo.com> wrote in message news:44d104c0\$1@linux...  
>  
> Thanks for the info - \$80 and it sounds better than the Paris clock -  
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>>That's the spec for the Hosa wdc-427.  
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>>thanks,  
>>-Carl  
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>>  
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I choose Polesoft Lockspam to fight spam, and you?  
<http://www.polesoft.com/refer.html>

---

Subject: Re: Anyone know if "+/- 10 ppm" is good for word clocks?  
Posted by [Deej \[1\]](#) on Thu, 03 Aug 2006 00:39:03 GMT  
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I may have to order one of these too. It's a real hassle to recable my Cubase rig for Hi Rez recording. With this I could hook it up, set it to 96k, then keep it turned off while I'm using Paris, but if I don't want to have Paris clocking the native DAW or need higher sample rates, I can keep Paris turned off and just use the the little Hoser.

;oD

"Aaron Allen" <nospam@not\_here.dude> wrote in message news:44d14071@linux...



> Nope, but I've ordered it.  
> AA  
>  
>  
> "rich" <studiodog\_99@yahoo.com> wrote in message news:44d104c0\$1@linux...  
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>> Anyone else have one yet?  
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> <http://www.polesoft.com/refer.html>  
>  
>

---

Subject: Re: Anyone know if "+/- 10 ppm" is good for word clocks?  
Posted by [Neil](#) on Thu, 03 Aug 2006 01:08:30 GMT  
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Deej, you shouldn't have to recable anything (OK, maybe I'm not thinking specifically about YOUR rig lol!). When you're doing Hi-Rez, just set your Cubase Project Setup menu to 96k (or whatever), and your Multiface software settings to "external" clock/sync; then when you're doing normal rez, set your Project Setup dropdown menu to 44.1k, and your Multiface software settings to "internal" clock/sync.

Or have I missed something in your convoluted nightmare of an Eniac system? lol

Neil

"DJ" <animix\_spam-this-ahole\_@animas.net> wrote:  
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> Cubase rig for Hi Rez recording. With this I could hook it up, set it to  
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Subject: Re: Anyone know if "+/- 10 ppm" is good for word clocks?  
Posted by [Martin Harrington](#) on Thu, 03 Aug 2006 07:55:58 GMT  
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---

With all due respect, Carl, on all modern recording systems, PPM metering is peak programme.

--  
Martin Harrington  
[www.lendaneer-sound.com](http://www.lendaneer-sound.com)

"Carl Amburn" <carlamburn@hotmail.com> wrote in message news:44d105c0\$1@linux...

> Ok, after a little research - DJ's guess is correct. ppm stands for "parts  
> per million", and is a measurement of oscillation - the amplitude or  
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> -Carl  
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Subject: Re: Anyone know if "+/- 10 ppm" is good for word clocks?  
Posted by [Carl Amburn](#) on Thu, 03 Aug 2006 08:41:30 GMT  
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Heya Martin - I'm sure that PPM "metering" is exactly what you are talking about. Apples and oranges here perhaps? The quartz crystal (what drive the phase locked loop (pll) circuits in these word clocks) specs I was looking to define are listed as this.....

#### Quartz Crystal Application Notes Definition of Terms

Nominal frequency: The specified center frequency of the crystal. Unit of frequency is Hertz (Hz). Quartz crystals are specified in kHz or MHz.

Frequency tolerance: The maximum allowable frequency deviation from a

Frequency tolerance is expressed in percent (%) or parts per millions (ppm).

"Martin Harrington" <lendan@bigpond.net.au> wrote in message  
news:44d1aac9\$1@linux...

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> peak programme.

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> Martin Harrington

> www.lendaneer-sound.com

>

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>> -Carl

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>> news:44d06029@linux...

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>>> www.lendaneer-sound.com

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Subject: Re: Anyone know if "+/- 10 ppm" is good for word clocks?

Posted by [rick](#) on Thu, 03 Aug 2006 09:02:36 GMT

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i think you could be standing right in front of "the thing that ate deej's brain" for days and still miss something...in this case the you i used means any bipedal creature that gets a woody over gear.

On 3 Aug 2006 11:08:30 +1000, "Neil" <OIUOIU@OIU.com> wrote:

>

>Deej, you shouldn't have to recable anything (OK, maybe I'm not  
>thinking specifically about YOUR rig lol!). When you're doing  
>Hi-Rez, just set your Cubase Project Setup menu to 96k (or  
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Subject: Re: Anyone know if "+/- 10 ppm" is good for word clocks?  
Posted by [Martin Harrington](#) on Thu, 03 Aug 2006 09:30:46 GMT  
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---

My apologies Carl, we were obviously, (looking back at the original post),  
talking about 2 different animals.

--

Martin Harrington  
[www.lendaneer-sound.com](http://www.lendaneer-sound.com)

"Carl Amburn" <carlamburn@hotmail.com> wrote in message  
news:44d1b48e\$1@linux...

> Heya Martin - I'm sure that PPM "metering" is exactly what you are talking  
> about. Apples and oranges here perhaps? The quartz crystal (what drive the  
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> Definition of Terms

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>> >> > to do with the internal clock accuracy-the Lucid GENx192 has  
>> >> > internal  
>> >> > clock  
  
>> >> >  
>> >> > <http://www.sweetwater.com/store/detail/GENx192/>  
>> >> >  
>> >> > The Rosendahl Nanosync specs are :  
>> >> > temperature compensated VCXO; +/- 0.5 ppm @ ambient temperature 15 -  
> 30  
>> >> > Celsius

>> >> >  
>> >> > <http://www.rosendahl-studioteknik.de/nanosyncs.html>  
>> >> >  
>> >> > This Rosendahl unit is a more expensive WC than the Lucid.  
>> >> >  
>> >> > I'm using a Lucid GENX6 in my studio which probably has about the  
> same  
>> >> > specs  
>> >> > as the GENX192 and it's a step up from the Paris clock to be sure.  
>> >> >  
  
> be  
  
>> >> > \$80.00  
>> >> > Hosa WC is \*really\* superior in accuracy to a \$700.00 Lucid WC is  
>> > another  
>> >> > question altogether but then again, the HOSA unit is very basic...no  
>> >> > frills.  
>> >> > .  
>> >> > I'd say that if you're hearing a positive difference, don't sweat  
>> >> > it.  
>> >> > After  
>> >> > all, we all know that a \$1000.00 Paris rig sounds better than a  
>> > \$40,000.00  
>> >> > PTHD rig so there are a few nice surprises out there still.  
>> >> >  
>> >> > If it sounds right, it "is" right.  
>> >> >  
>> >> > ;o)  
>> >> >  
>> >> > Deej  
>> >> >  
>> >> >  
>> >> >  
>> >> >  
>> >> >  
>> >> > a "Carl Amburn" <carlamburn@hotNOSPAMmail.com> wrote in message  
>> >> > news:44cff599\$1@linux...  
>> >> >> That's the spec for the Hosa wdc-427.  
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Subject: Re: Anyone know if "+/- 10 ppm" is good for word clocks?  
Posted by [Deej \[1\]](#) on Thu, 03 Aug 2006 14:44:07 GMT  
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Dear Dr. Neil and Uncle Ricky,

1. 4 x MECs and a Mytek A/D converter are being clocked by a Lucid GenX6
2. The GenX6 is an old one that is limited to 48k
3. Using the Mytek as a master clock hasn't been as successful as I had hoped with Paris, therefore it is slaved to the Lucid.
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6. The Three RME cards have 75 ohm terminator caps on the BNC clock outputs.
7. The three RME cards do not have terminators on the BNC clock inputs
8. In order to use the RME cards in standalone mode at 44.1, I have to have the Paris DAW and MECs running and Paris booted.
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11. If the Hosa clock was just hooked up to the the 3 x RME BNC inputs and the Mytek converter BNC input, and tuned off, It would not be sending a conflicting clock signal to the RME cards when they were being clocked from the MECs and I wouldn't have to crawl around in my machine room and recable a bunch of stuff.
12. If I wanted to record HiRez, I could just not boot the Paris DAW and flip a switch to start the HOSA WC, then boot the Cubase DAW, make a couple of changes to the settings in the HDSP control panel to change it from ADAT sync to WC sync (an incredible hassle, but nothing is perfect, I guess) and then I'd be good to go for 88.1 or 96k tracking to my Mytek A/D converter and my Multiface.

.....and truly guys, I can't possibly imagine why you would ask such a question at all when something like this is so obvious in the first place. I mean, this is on page 1 of the DAW 101 workbook.....right?

;o)

"rick" <parnell68@hotmail.com> wrote in message  
news:4pe3d2lkg9ag4ogni2p14hh9kbf7c3qidp@4ax.com...

> i think you could be standing right in front of "the thing that ate  
> deej's brain" for days and still miss something...in this case the you  
> i used means any bipedal creature that gets a woody over gear.

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> On 3 Aug 2006 11:08:30 +1000, "Neil" <OIUOIU@OIU.com> wrote:

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> >  
> >Deej, you shouldn't have to recable anything (OK, maybe I'm not  
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> >Setup dropdown menu to 44.1k, and your Multiface software  
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> >  
> >Or have I missed something in your convoluted nightmare of an  
> >Eniac system? lol

> >  
> >Neil

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> >>;oD

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> >>> Nope, but I've ordered it.

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> >>>>

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Subject: Re: Anyone know if "+/- 10 ppm" is good for word clocks?

Posted by [rick](#) on Thu, 03 Aug 2006 18:51:24 GMT

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well now that you have published a simple how to guide i can admit the error in my premature judgement call. for some reason (must be an age thing) i thought your set up was much more complicated than explained below. so admitting that (how big of me) what the hell took you so long to figure this out???????????????????? age...is a terrible thing to some...more than others. what dear????? drinks are ready....sorry sir but i have to go water my brain.

On Thu, 3 Aug 2006 08:44:07 -0600, "DJ"

<animix\_spam-this-ahole\_@animas.net> wrote:

> Dear Dr. Neil and Uncle Ricky,

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Subject: Re: Anyone know if "+/- 10 ppm" is good for word clocks?

Posted by [Neil](#) on Thu, 03 Aug 2006 23:30:13 GMT

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>>>2. The GenX6 is an old one that is limited to 48k

Oh, there's the problem... sorry, thought you had the 96k version like mine (Genx6-96).

Neil

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Subject: Re: Anyone know if "+/- 10 ppm" is good for word clocks?  
Posted by [Deej \[1\]](#) on Thu, 03 Aug 2006 23:34:34 GMT  
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Since I can't have active WC cables hooked up to the RME cards while Paris is running even if I did have a 96k Lucid, I would be required to perform certain rotational wrist movements when connecting/disconnecting the cables from the RME cards as opposed to just flipping a switch on the Hosa, so  
.....

;o)

"Neil" <OIUOI@OI.com> wrote in message news:44d28705\$1@linux...  
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> >>>2. The GenX6 is an old one that is limited to 48k  
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