Subject: Re: Fwd: Replacement for HTIA EC T150
From: Giacomo Ciani <ciani@phys.ufl.edu>
Date: 5/14/2012 3:47 PM
To: "Barbet,Mark C" <mbarbet@ufl.edu>
CC: Eric Deleeuw <edeleeuw@ufl.edu>, Guido Mueller <mueller@phys.ufl.edu>, Mindy Jacobson <mjacobso@ligo.caltech.edu>

Hi all,

I've tried to catch up with the exchange of e-mail in between talks. The best sensor to replace the one we have is the last one Mindy found. However, let me point out that integrating a different sensor in the setup implies mechanical, software and maybe electrical adaptations that are likely to require at least couple of weeks, to then obtain a results that is a bit harder to compare with the previous ones. So, the advantage of this solution is not immediatly clear to me. It depends on how much Heimann can expedite the shipping... if we can get the HTIA in 3 weeks, I'll rather wait... and order 2!

Giacomo

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On Mon, 14 May 2012 10:37:37, Barbet,Mark C wrote:

> Hi,
>
> This sensor has an extra two pins, which if I read correctly, are for calibration purposes only?
>
> If I understand these devices correctly (I may not) they are made so that their voltage changes based on the temperature they are reading. So, since the device is made for a different temperature range, will the voltage difference on this new device correspond to different temperatures than the same voltage on the old detector? Would this even be a real problem for us, since what we're testing for is uniformity?
>
> Also, will the lack of internal compensation for ambient temp be much of an issue here?
>
> Do any of these in stock on a pcb (not necessary I think, just easier to install since our current device is on a pcb)?
>
> If it works for our purposes, I see no reason not to try it.
>
> Thanks,
>
> Mark
>
> On Mon, 14 May 2012 13:02:46 -0700, Mindy Jacobson wrote:
>
> > Great news!

Looks like the distributor, Boston Electronics, has a sensor that can do the job for us.
Can you also please review this material to confirm?
I think we should get one of these _in addition to_ waiting for a proper replacement item from Germany.
What do you all think?

Thanks,
Mindy

-------- Original Message --------
Subject: Replacement for HTIA EC T150
Date: Mon, 14 May 2012 15:42:08 -0400
From: Jim Melnyk
To: Mindy Jacobson
CC: Bluefish@Boselec.com

Good Afternoon Mindy,

Attached is a spec sheet for another Heimann thermopile with an integrated amplifier.

We have several of these in stock. The unit price is $109.

Like the detector you already have, this HIS includes a Fresnel lens but this has a narrower field of view, 10 degrees versus the 20 degrees of the HTIA.

Unlike your detector, the HIS does not include compensation for ambient temperature. The HIS units I have in stock are calibrated for a maximum target temperature of 100C rather than the 150C of your HTIA unit.

We cannot ship today but can do so tomorrow if we receive an order early enough.

Please let me know how you want to proceed.

Regards,
Jim Melnyk
Applications Engineer

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Resources:
* Quantum Cascade Lasers
<http://www.boselec.com/products/documents/AlpesQCLlit12-28-09.pdf> -
IR Sources (thermal)
<http://www.boselec.com/products/documents/IRSources-WWW11-12-10_000.pdf>
- Choppers, Lock-ins
<http://www.boselec.com/products/documents/OpticalChoppersLock-InsWWW1-10-11.pdf>

<http://www.boselec.com/products/documents/OpticalChoppersLock-InsWWW1-10-11.pdf>
IR detectors (fast, cooled)

<http://www.boselec.com/products/documents/VigoCatalog4-19-11-www.pdf> -
IR Detectors (room temp Pyros
<http://www.boselec.com/products/documents/HeimannPyros5-27-10_000.pdf>,
Thermopiles
<http://www.boselec.com/products/documents/HeimannThermopiles6-7-11.pdf>)
- IR detectors (imaging arrays)
<http://www.boselec.com/products/documents/HeimannArrays5-19-11.pdf>
<http://www.boselec.com/products/documents/HeimannArrays5-19-11.pdf>
UV Detectors
<http://www.boselec.com/products/documents/UVPhotodetectors7-6-11-www.pdf>
- Photon Counting Detectors
<http://www.boselec.com/products/documents/BH-PhotonCountingDetectorsBROCHURE2-7-11.pdf>
- Photon Counting ELECTRONICS (TCSPC)
<http://www.boselec.com/products/documents/BH-TCSPCSystemsBROCHURE12.28.09.pdf>

<http://www.boselec.com/products/documents/BH-TCSPCSystemsBROCHURE12.28.09.pdf>
Fluorescence Lifetime Microscopy Imaging (FLIM)
<http://www.boselec.com/products/documents/BH-TCSPCforMicroscopyBROCHURE12.28.09.pdf>