

[RC Groups](#)[DIY Electronics](#)Discussion [Imax B6 temp sense probe](#)**#1** hadihf

Nov 28, 2007 05:37 AM

Imax B6 temp sense probe

Hi,

Anybody tried diy B6 temp. probe? I think LM335 should work.

Regards

#2 serioussam

Feb 04, 2008 02:21 PM

Anyone ?!

I think it's either the LM335, or possibly the LM35.

I've got an LM35 on order with a bunch of other stuff, so I'll give it a try when I get it. If it works I'll let you know.

Sam.

#3 serioussam

Mar 19, 2008 08:30 AM

IMAX B6 Temperature Sensor -> LM35

1 Attachment(s)

Just tested the LM35 (not LM335) and it works well. Wiring diagram attached.

#4 lyclyc

Mar 24, 2008 08:07 AM

how much is the LM35?

i bought for my estation BC6 for 10USD...

think i'm stupid...

#5 serioussam

Mar 28, 2008 04:34 AM

LM35 should be about 2USD I think. Plus cost of plug.

#6 Bruce Abbott

Mar 29, 2008 05:13 AM

1 Attachment(s)

FYI here's an actual E-Station temperature probe with the shrinkwrap removed. Same chip, same connections...

#7 serioussam

Mar 30, 2008 12:05 AM

Thanks for the confirmation Bruce.

#8 natterjak

May 21, 2008 02:13 PM

I know this is a stupid question, but please humour me. What is the purpose of a temp sensor on a charger like this? Are you supposed to position the temp sensor on the lipo pack so the charger terminates the charge when the pack gets too hot, or is it about sensing the ambient temperature and varying the charge voltage as a result?

#9 bruce_c

May 21, 2008 03:34 PM

its normally used when charching NIMH/NICD batteries which heat up towards the end of the charge. When charging at a high rate they can get really hot. Charger can be set to terminate charge if temp exceeds a preset.

In some cases (hotliners spring to mind) some people keep charging untill the pack hits a certain temp (as high as 80C sometimes, if remember rightly) - then immediately use the hot pack (apparently give better output on launch or something)

#10 natterjak

May 22, 2008 05:19 AM

So it's not to do with terminating a lipo charge before 4.2V / cell if you're going to use the cells in a cold environment?

#11 sneasle

Sep 12, 2008 09:16 PM

I hope I don't get yelled at for dragging this thread up.

Is this the same type of probe used by the Triton series?

#12 Gino CP

Sep 12, 2008 10:02 PM

I use my lipo only Cxarge charger's temp probe to charge my tx nimh pack. I set the charger to 3S and temp cutoff to 35 deg C. It works like a charm, cutting off current at exactly 35 deg C and sounding an alarm.

#13 sneasle

Sep 12, 2008 11:56 PM

Quote:

Originally Posted by **Gino CP**

I use my lipo only Cxarge charger's temp probe to charge my tx nimh pack. I set the charger to 3S and temp cutoff to 35 deg C. It works like a charm, cutting off current at exactly 35 deg C and sounding an alarm.

Was that meant for me somehow?

#14 Gino CP

Sep 13, 2008 05:18 AM

It's meant for anyone who could use the information.

#15 Bruce Abbott

Sep 13, 2008 08:57 AM

Quote:

Originally Posted by **sneasle**
Is this the same type of probe used by the Triton series?

Yes.

<http://www.rctech.net/forum/2445303-post1222.html>

Quote:

Originally Posted by **gusanoloco**
the thermal probe for Duratrax ICE, G.Planes Triton, and Supernovas, Robitronics and clones is based on an integrated circuit, this is the LM35

#16 caffinatedbear

Mar 14, 2009 03:56 PM

Can someone tell me how to place the sensor

Where can I learn more about how to place the sensor. thanks!

#17 68605

Jul 28, 2009 08:10 AM

1. Place a small dab of KY Jelly on tip of probe.
2. Insert carefully.

#18 Thanos

Aug 26, 2009 02:39 AM

My new IMAX B6 arrived in excelent condition, works fine with all types of batts (haven't tried A123) using a 12V/2A I had at home!! I guess they have done a great job following your critics and comments. Thanks to all of you that first tried it! I wanted to use the temperature option so I got an LM35DZ sensor and used itaccording to "serioussam's" directions, but no luck. I opened the unit and everything looks OK, with no bad solderings os anything missing. I get "EXT TEMP 0". Using my multimeter I get: +Vs to GND = 4,992V and Vout to GND = 2,331V so it seems the sensor works! Any ideas? Do I have to set anything special in the charger?

Thanks
Thanos

#19 Thanos

Aug 26, 2009 06:18 AM

OK! I tried it once more and it works great!! The only thing I have to do is to plug the probe in the charger AFTER I have started charging my NiMH set. Don't ask me why, this is how it works. It is off by -2 oC (less) and yes, when pre-set temperature is reached, it ends the cycle - and this is the best way to charge NiMH and NiCd packs. It is very easy and very cheap (1,3 euros for the sensor and a servo wire for the plug).

Thanks,
Thanos

#20 weberschi

Feb 08, 2010 10:46 PM

Lol Jim that was funny! heheheheh

Nice job on adapting the probe guys, thanks very much

#21 dado099

May 23, 2011 01:32 PM

I put an LM35 from Duratrax ICE (on IMAX B8) but it reads 68oC instead of 20oC (room temperature). Is there any way to calibrate it ?

#22 coriolan

May 23, 2011 01:52 PM

Quote:

Originally Posted by **dado099** (Post 18312182)
*I put an LM35 from Duratrax ICE (on IMAX B8) but it reads 68oC instead of 20oC (room temperature).
Is there any way to calibrate it ?*

Here is the data sheet for the LM35:

<http://www.national.com/ds/LM/LM35.pdf>

It gives an output for celcius, 68 sound like a reading for farhenheit (equivalent to 20oC),the LM34 has a Farhenheit output:

<http://www.national.com/ds/LM/LM34.pdf>

Each gives a 10Mv/degree output and they don't requires calibration. This link by Bruce Abbott explain it all:

<http://www.rctech.net/forum/2445303-post1222.html>

#23 dado099

May 24, 2011 03:39 AM

Thanks coriolan,
after some search on the net, I found that pinout between Duratrax and IMAX are different.
So changing pinout fixed it. ;)

#24 emelum

Sep 29, 2011 03:37 AM

Hello, Any one knows the temp sensor for the ICharger 206B?

Thanks!

#25 S Keith

Nov 06, 2014 07:29 PM

Anybody have suggestions for obtaining the connector and wire?

#26 Hugh P

Nov 06, 2014 09:20 PM

Just use a replacement servo cable.

#27 S Keith

Nov 08, 2014 10:10 AM

Quote:

Originally Posted by **Hugh P** (Post 29879403)
Just use a replacement servo cable.

Hugh,

Thank you very much.

Steve

#28 Propeeler

Jul 18, 2015 12:20 PM

I got an LM35 from eBay for 0.99\$ with free shipping. <http://r.ebay.com/9WAwtP>

Plugged it to a servo extension cable and it works great with my Turnigy Accucel-6.
I have follow the diagram posted by serioussam and it's all good.

Thank you guys

#29 pekcitron

Dec 29, 2016 09:16 AM

Quote:

Originally Posted by **serioussam** (Post 9382888)
Just tested the LM35 (not LM335) and it works well. Wiring diagram attached.

Works fine on SkyRC Q200 charger! I have used a LM35DZ and the serioussam's diagram on first page (this quote).

Thanks all!

#30 Acetronics

Dec 29, 2016 01:09 PM

BTW ...

We could add Multiplex / Robbe Chargers use the same sensor (LM35) but just with swapped connections ...

seen from the idiotproof lug, that gives Black, White, Red for the wires.

Alain

#31 kocetoMR

Feb 18, 2017 11:01 AM

do you know Graupner what thermistor use for temp sensor?

#32 ZorAxe

Jun 09, 2017 03:26 PM

Can anyone help me. I made up my sensor using the LM35DZ. Connected the wires as shown in the diagram on the 1st page. When I plug it in, it give me the correct temperature. When I apply external heat to the sensor I can set the temperature rising. The problem I have is the temperature goes above the CUTOFF setting, but it does not stop the charger or give any alarms.

Any experience this? I'm using a EV-PEAK C1-XR charging LiPo's

#33 F-111 John

Jun 12, 2017 09:36 AM

Do you have a NiCd charging at the time? It may be that your charger doesn't 'turn off' or set an alarm, it just lowers the charging current when it reaches cutoff temp.

The only way to know for sure is to have a NiCd charging and have a Watts Up connected so you can monitor the current.

Edit to add: I just saw that you were charging LiPos. I believe (but could very well be wrong) that the temp probe was just for NiCd mode.

#34 interestingfello

Dec 20, 2017 12:29 PM

I don't have any futaba connectors, jr only.

I assume hookign it up backwards will bake the LM35? Or is it tolerant to ufk-ups?

#35 F-111 John

Dec 21, 2017 03:24 PM

The +5V pin is in the middle, so plugging it in backwards shouldn't fry anything, it just won't work.

That being said, here's a listing on eBay for four pieces at \$5.95 shipping included from a U.S. seller:
<https://www.ebay.com/itm/National-Se...YAAOSwx2dYH3EK>

Blow three up and you're still ok! (I bought a five pack several years ago and still have four of them in the junk box somewhere.)

#36 interestingfello

Dec 21, 2017 03:41 PM

Thank you!

Lol... I frequently purchase parts for pennies on the dollar from China and hold on to them for months or even years, eventually getting to the project or not. I ordered 5 LM35 for \$0.99 4 months ago...

#37 F-111 John

Dec 23, 2017 06:13 PM

I sometimes order from china, too, if I don't mind waiting 6-8 weeks for delivery. I buy U.S. if I'm a bit impatient.

#38 fagge

May 19, 2025 08:41 AM

I have a Voltcraft V-Charge Field 60 from Conrad and the LM35DZ works perfectly with it! Thank you all for telling me, I try to give something back with my information.

All times are GMT -5. The time now is 11:26 AM.