



Steve Nixon &lt;steve.nixon.viamed@googlemail.com&gt;

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## Re: Connector wiring

1 message

**Steve Nixon** <steve.nixon@vandagraphst.com>  
To: Tom Baker <tom.baker@avon-protection.com>

15 January 2018 at 12:31

OK Tom, thanks for the update.

I'll put the project on-hold. It is disappointing news, especially as we have developed effectively two new sensors to your specific requirements, which does take time and effort.

Regards

Steve

On 15 January 2018 at 11:52, Tom Baker <[tom.baker@avon-protection.com](mailto:tom.baker@avon-protection.com)> wrote:

Sorry Steve. Sorry for lack of feedback.

We did get a mag result — 1.5–2nT per sensor at 10cm. So the best yet. Thanks for your efforts.

You may have gathered though that actual rebreather testing using them has stalled.

I intended to follow up with a meeting with everyone on what our direction would be regarding accuracy (linearity/calibration, etc.) as you suggested, but we have yet to get back into the chamber to do actual dive testing.

We have another branch of development using Poseidon (digital) sensors, which has taken the focus away from the analogues, but this has also not had any dive testing.

The only O2 sensors we have that would pass the STANAG 2897 class A requirement are yours, so we need to keep our options open.

I have to be honest with you though — our customers preferred option is the Poseidon.

I wish it was simple to say one way or the other, but at the moment we need to keep both designs going.

If you will wait a little longer, we will know.

As always Steve, we appreciate your efforts. Like I said, you have a low mag O2 cell which is therefore a valuable thing, we may still need it.

Tom

**From:** [steve.nixon.viamed@googlemail.com](mailto:steve.nixon.viamed@googlemail.com) [mailto:[steve.nixon.viamed@googlemail.com](mailto:steve.nixon.viamed@googlemail.com)] **On Behalf Of**  
Steve Nixon  
**Sent:** 15 January 2018 10:30  
**To:** Tom Baker <[tom.baker@avon-protection.com](mailto:tom.baker@avon-protection.com)>  
**Subject:** Re: Connector wiring

Hi Tom

What is the status of the testing, is the project still currently active?

Regards

Steve

On 28 November 2017 at 16:59, Steve Nixon <[steve.nixon@vandagraphst.com](mailto:steve.nixon@vandagraphst.com)> wrote:

I'll have to have a look at one of the connectors, as far as I was aware they aren't marked. I had gone by the the drawing for the 2695 Series drawing, which has it the other way around.

Steve

On 28 November 2017 at 16:10, Tom Baker <[tom.baker@avon-protection.com](mailto:tom.baker@avon-protection.com)> wrote:

Sorry Steve, is pin 1 as marked on the molex, i.e., the 'circuit' marked as "1". If so, I measured 11mV across pins 3 and 4 (i.e., it looks like analog ground is on 3 (red) and analog output is on 4 (black))?

**From:** [steve.nixon.viamed@googlemail.com](mailto:steve.nixon.viamed@googlemail.com) [mailto:[steve.nixon.viamed@googlemail.com](mailto:steve.nixon.viamed@googlemail.com)] **On Behalf Of**

Steve Nixon

**Sent:** 28 November 2017 15:58

**To:** Tom Baker <[tom.baker@avon-protection.com](mailto:tom.baker@avon-protection.com)>

**Subject:** Re: Connector wiring

The Molex should be 4 way model 22-01-2047

Pin1 (+) black.

Pin2 (-) red

Pin3 1-Wire Data, red

Pin4 1-Wire ground, black

Steve

On 28 November 2017 at 15:51, Tom Baker <[tom.baker@avon-protection.com](mailto:tom.baker@avon-protection.com)> wrote:

Of course, but what are those 4 ways please?

We had to push our EMC test date back a month – it's now Friday next week.

Very much appreciated delivery when you did!

**From:** [steve.nixon.viamed@googlemail.com](mailto:steve.nixon.viamed@googlemail.com) [mailto:[steve.nixon.viamed@googlemail.com](mailto:steve.nixon.viamed@googlemail.com)] **On Behalf Of** Steve Nixon  
**Sent:** 28 November 2017 15:37  
**To:** Tom Baker <[tom.baker@avon-protection.com](mailto:tom.baker@avon-protection.com)>  
**Subject:** Re: Connector wiring

Its the convention, we can change to whatever you prefer.

Does it mean that you haven't tested the sensors yet, I thought that you needed them urgently?

Steve

On 28 November 2017 at 15:07, Tom Baker <[tom.baker@avon-protection.com](mailto:tom.baker@avon-protection.com)> wrote:

It looks like analog ground is on 3 (red) and analog output is on 4 (black).

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**From:** Tom Baker  
**Sent:** 28 November 2017 15:02  
**To:** 'Steve Nixon' <[steve.nixon@vandagraphst.com](mailto:steve.nixon@vandagraphst.com)>  
**Subject:** RE: Connector wiring

Steve,

Apologies if we've covered this before, but what is the pinout on the new A-44-D4NM?

I had asked for the pinout below, but from the black/red/red/black wiring I assume you didn't do that?

Tom

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**From:** Tom Baker  
**Sent:** 22 September 2017 14:12  
**To:** 'Steve Nixon' <[steve.nixon@vandagraphst.com](mailto:steve.nixon@vandagraphst.com)>  
**Subject:** RE: Connector wiring

Steve,

If you are waiting for a specification for the pin-out, I apologise. I thought maybe we'd said do whatever you like.

If so, use:

Pin      Function

- 1 Analog output
- 2 Analog ground
- 3 Maxim 1-wire interface (power/TX/RX)
- 4 Digital ground

(I think as for the 4-way phone plugs in the previous prototypes)

Tom

**From:** [steve.nixon.viamed@googlemail.com](mailto:steve.nixon.viamed@googlemail.com) [mailto:[steve.nixon.viamed@googlemail.com](mailto:steve.nixon.viamed@googlemail.com)] **On Behalf Of** Steve Nixon  
**Sent:** 22 September 2017 13:59  
**To:** Tom Baker <[tom.baker@avon-protection.com](mailto:tom.baker@avon-protection.com)>  
**Subject:** Fwd: Connector wiring

----- Forwarded message -----

From: **Steve Nixon** <[steve.nixon@vandagraphst.com](mailto:steve.nixon@vandagraphst.com)>  
Date: 4 September 2017 at 16:44  
Subject: Connector wiring  
To: Sam Downer <[sam.downer@avon-protection.com](mailto:sam.downer@avon-protection.com)>

Hi Sam

Do you have any preference regarding assignment of the connector pin functions?

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Steve

Steve Nixon

Director - Vandagraph Sensor Technologies Ltd.

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