



Aqib Majeed &lt;viamed.aqib.majeed@gmail.com&gt;

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**Fwd: Update on new sensor design**

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**Steve Nixon** <office@viamed.co.uk>  
Reply-To: steve.nixon@vandagraphst.com  
To: office@vmsecure.me.uk  
Cc: cathy.green@vmsecure.me.uk

6 April 2023 at 13:21

Please generate a no charge VST order to send to Mike at KISS Rebreathers:

4 x 8010027  
1 x 8010028

Add note:

Sample rebreather oxygen sensors for R&D evaluation 'size and fit' purposes only. Value for customs purposes only USD \$20.00

Send via UPS Express Saver.

Steve

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

From: **Mike KISS** <mike.kissccr@gmail.com>  
Date: Wed, 22 Mar 2023 at 14:23  
Subject: Re: Update on new sensor design  
To: <steve.nixon@vandagraphst.com>

I believe that will work on our board.

Mike Young

On Mar 22, 2023, at 8:28 AM, Steve Nixon <office@viamed.co.uk> wrote:

Hi Mike

I know you originally used the AI sensor as a design reference sensor, but is there a reason why you want open design with the PCB exposed without an output cover?

If not, what do you think of the following?

Steve

<image.png>

<image.png>

On Tue, 21 Mar 2023 at 16:01, Steve Nixon <[steve.nixon@vandagraphst.com](mailto:steve.nixon@vandagraphst.com)> wrote:

Understood Mike, thank you for your patience with us.

Steve

On Tue, 21 Mar 2023 at 14:48, Mike KISS <[mike.kissccr@gmail.com](mailto:mike.kissccr@gmail.com)> wrote:

I will take those samples please. But ultimately the production version will need the threads.

Mike Young

On Mar 21, 2023, at 9:11 AM, Steve Nixon <[office@viamed.co.uk](mailto:office@viamed.co.uk)> wrote:

Hi Mike

I apologise in advance, I'm not sure whether the following is good or bad news for you.

We were supposed to produce samples for you based on the attached (grey) drawing. We have had a misunderstanding here between ourselves and engineering has produced samples similar to the PSR 11-39 sensor that you have.

Which design do you prefer and do you want me to ship say four of the samples shown in the images?

Steve

On Wed, 1 Mar 2023 at 14:30, Mike KISS <[mike.kissccr@gmail.com](mailto:mike.kissccr@gmail.com)> wrote:

Mike Young

Begin forwarded message:

**From:** Jon L <[jlillest@gmail.com](mailto:jlillest@gmail.com)>  
**Date:** March 1, 2023 at 8:28:34 AM CST  
**To:** Mike KISS <[mike.kissccr@gmail.com](mailto:mike.kissccr@gmail.com)>  
**Subject:** Re: Update on new sensor design

Mike,

I'm using the molex-branded part here:  
<https://www.digikey.com/en/products/detail/molex/0731000207/1465150>

SMB is a standard part for the RF industry and so any meeting that standard should mate with the connector they choose to put on the sensor. The molex parts had greater availability over the past couple of years, is about a third of the price and I've no trouble mating it with other SMB connectors.

I'm happy to try others if need be, or if it's helpful I can mail a handful of these molex SMB Jacks to them so they can try ours.

I'm excited to see this is moving forward. I can't wait to try them.

-Jon Lillestolen

On Wed, Mar 1, 2023 at 7:46 AM Mike KISS <[mike.kissccr@gmail.com](mailto:mike.kissccr@gmail.com)> wrote:  
This is from vandergraph on the SMB sensor. Do you know the answer to his question?

Mike Young

Begin forwarded message:

**From:** Steve Nixon <[office@viamed.co.uk](mailto:office@viamed.co.uk)>  
**Date:** March 1, 2023 at 2:49:20 AM CST  
**To:** Mike KISS <[mike.kissccr@gmail.com](mailto:mike.kissccr@gmail.com)>  
**Subject:** Re: Update on new sensor design  
**Reply-To:** [steve.nixon@vandagraphst.com](mailto:steve.nixon@vandagraphst.com)

Hi Mike

I have finally just received a small quantity of connectors. I am also trying to get more from Radiall.

They should all be compatible, but can you confirm which bulkhead connectors you are using, Radiall or Tyco?

Regards

Steve

Steve

On Sat, 25 Feb 2023 at 19:04, Mike KISS <[mike.kissccr@gmail.com](mailto:mike.kissccr@gmail.com)> wrote:

Steve any updates on getting the connectors? I really need to get this project moving.

Mike Young

On Feb 9, 2023, at 12:23 PM, Steve Nixon <[office@viamed.co.uk](mailto:office@viamed.co.uk)> wrote:

Hi Mike

Apologies again for the delay. We are still waiting for some connectors to arrive. To be honest I did not expect a delay with the supply of the connectors.

Regards

Steve

On Thu, 26 Jan 2023 at 00:02, Mike KISS <[mike.kissccr@gmail.com](mailto:mike.kissccr@gmail.com)> wrote:

That is great!!! How soon can we get some samples?

Mike Young

On Jan 25, 2023, at 2:23 PM, Steve Nixon <[office@viamed.co.uk](mailto:office@viamed.co.uk)> wrote:

Hi Mike

Apologies again for the delay in getting back to you.

We propose to send samples based on the attached. It looks like you will have sufficient room to connect to your connector set PCB.

I was initially thinking that the casing would be flush with the PCB, as with the Analytical sensor. However, with the raised rim it will offer better protection to

the and would make it a custom design for you. This option utilizes existing parts so it also saves on extra tooling.

Regards

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Steve

Steve Nixon  
Director - Vandagraph Sensor Technologies Ltd.

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Mobile: +44 (0)7850 252267

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<KISS sensor with SMB connector.png>  
<KISS PCB connector set.png>

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Steve

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<K-22D SMB - 2.JPG>  
<K-22D SMB - 3.JPG>  
<K-22D SMB - 1.JPG>  
<KISS sensor with SMB connector (4).png>  
<KISS PCB connector set, resized image.png>

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06/04/2023, 13:33

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