



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

**Fwd: JFD DB200381 oxygen sensor purchase order: 11802749**

1 message

**Steve Nixon** <steve.nixon@vandagraphst.com>  
To: Duncan Clark <D.Clark@jfdglobal.com>  
Cc: Mini Nambiar <m.nambiar@jfdglobal.com>

23 April 2018 at 09:31

Hi Duncan / Mini

Have you had a chance to mag test the returned components?

I'm conscious that the schedule is already tight., therefore may I have your feedback regarding points 2,3 & 4.

Regards

Steve

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

From: **Steve Nixon** <steve.nixon@vandagraphst.com>  
Date: 11 April 2018 at 01:28  
Subject: JFD DB200381 oxygen sensor purchase order: 11802749  
To: Duncan Clark <D.Clark@jfdglobal.com>

Dear Duncan

Please accept my apologies for the delay in getting back to you. The following is further to your last email and the purchase order 11802749 for oxygen sensors.

- a) The cost of the sensors excludes VAT as per the VST price list.
- b) The shipment of the sensors is to be covered by JFD insurance.
- c) Until outstanding issues have been resolved we cannot guarantee delivery by the 25/06/18
- d) We can only produce sensors to our production specifications.
- e) Can you please advise the UPS delivery times to JFD? The standard UPS deliver service is up to the end of the standard working day and I note that your goods-in closes at 16:30 Monday to Thursday and at 12:00 on Friday. In view of this should we amend the delivery to UPS Express Server, in order to ensure delivery is before 12:00.

I wish to raise the following queries concerning the JFD specifications:

As stated above we can only deliver against our production specifications. There are differences on your latest version specifications and these have varied from previous discussions.

We will supply the sensors fitted with Molex 22-01-2037 connectors, this is to allow testing during production and QA tests. Of course, once the sensors have passed your acceptance QA tests, the connectors can be disconnected.

Due to the nature of the supply we have stated the range as 0 – 100% oxygen, as opposed to 0 -2500 mbar ppO2.

JFD has changed the values of the linearity error. We can only supply against those on our production specification datasheet.

Response time, you have stated a longer response time, which shouldn't be a problem. Our specification is <5 seconds. Unless you specifically require a longer response time?

JFD has increased the lower range of the storage temperature, against which we cannot offer any performance guarantees or warranties.

JFD has stated sensor life in years; VST state in % oxygen hours, which is effectively a longer period.

Magnetic signature of <3.5nT, this has been reduced from <5.0nT by JFD. We cannot deliver to this specification nor offer any production guarantees. VST can only non-mag supply parts in good faith for assessment and approval by JFD prior to production. We should verify whether the component parts can meet the lower specification requirement of <3.5nT.

JFD has stated a sensor orientation specification, which is not in the VST specifications.

Markings, the current artwork is as per the latest version of the datasheet. Please confirm required serial number format and whether the markings are acceptable. If alternative markings are required, please supply details so that we can edit the artwork.

From recent discussions with JFD we have revised the diameter of the input casing to be the same as the main sensor body (VST = 27.0 mm +/- 0.2mm). JFD have subsequently changed this slightly again: JFD = 27.25 to 27.35 mm

The VST official diameter of the output cap is 27.4 +/- 0.2mm. JFD = 27.4mm to 27.8mm

There is also a slight difference on the length of the sensor body, VST = 20.5mm +/- 0.2mm, JFD = 20.5 to 20.6mm.

Suggested stages in order proceed to the production of the initial sensor production batch.

- 1) VST to return disassembled parts from prototype test sensors for non-mag assessment by JFD.
- 2) JFD to approve the suitability of the non-mag parts.
- 3) JFD to approve the labelling artwork.
- 4) JFD to approve the VST production specifications.
- 5) VST to order sufficient non-mag parts for approximately 9 – 12 months production.
- 6) VST to proceed with tooling for the revised casing.
- 7) VST to supply non-mag parts to JFD for non-mag assessment and approval.
- 8) JFD to return non mag parts to VST in order for them to be utilized in production.
- 9) Production of the first batch of sensors against the supplied purchase order.

To date we have supplied prototype sensors at no charge to JFD and we are prepared to procure in advance the specialist non-mag parts. We are also producing the sensor tooling at no cost to JFD. We have also endeavoured to meet JFD's original specifications and subsequent specification changes.

VST is ISO 9001 certified and we are audited by BSI. In our view this should be sufficient and an audit by JFD is not necessary. In addition we have expressed our concerns and sensitivities concerning any additional third party audits. You will also be aware of past issues with supplies from other companies and we do not wish to jeopardize our business nor the supply of sensors to our existing customer base.

Kind regards

Steve

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Steve

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## 2 attachments

 **JFD OEM Price List 2018-04-11.pdf**  
538K

 **Oxygen Sensor Specifications - 8010050 v1.5 2018-04-11.pdf**  
742K