Gmail **Steve Nixon <steve.nixon.viamed@googlemail.com>**

Re: [External]E1002737, OOD103 Oxygen Sensor connector issues?

1 message

Steve Nixon <steve.nixon@viamed.co.uk> 26 May 2023 at 13:18
Reply-To: steve.nixon@viamed.co.uk
To: "Dumschat, Christa" <Christa.Dumschat@honeywell.com>
Cc: "Schliemann, Andre" <Andre.Schliemann@honeywell.com>, "Wagner, Jessica (GE0Y)" <Jessica.Wagner@honeywell.com>, "Miska, Stefan" <Stefan.Miska@honeywell.com>, "Sproessel, Marko (GE0Y)" <Marko.Sproessel@honeywell.com>, "Lingies, Maik (GE0Y)" <Maik.Lingies@honeywell.com>

Hi Christa

In a way that is good news and great that you have found the problem so fast, thank you.

If you look at the numbers of returns, we don't have a significant problem; but I was concerned that this issue could also be affecting other sensor types/versions and not being recognized. It is more apparent with the diving sensors, many of the reported unstable sensors may not be a true production reliability (inner sensor) problem, but a simple case of the overlapping PCB coating.

So, we can say that we have identified the root cause and we do not need to investigate or confirm the suitability of the associated connector parts that the customer is using, nor do we have a connector corrosion issue.

Customer connector parts:

3 pin Molex housing - Farnell code 1462838, **22-01-3037**, KK 254 2695, Receptacle, 3 Positions, 2.54 mm

Contacts - brass, gold plated, Farnell code 1462605, 08-56-0110, KK 254, KK 254 2759 Series, Socket, Crimp, 22 AWG

Contacts - phosphor bronze, gold plated, Farnell code 2888902, 08-65-0814, CONTACT, SOCKET, 22AWG, CRIMP

Steve

On Fri, 26 May 2023 at 12:37, Dumschat, Christa <Christa.Dumschat@honeywell.com> wrote:

> Hi Steve,
>
> we analyzed the sensors and found on most sensors a thin layer on the surface of the connector that prevent electrical contact. It looks like the coating we use for protection of PCB was on the lower parts of the connector. It is possible to remove with Acetone. Production stuff was trained today on that topic, and we hope the problem will not occur again.
>
> 2 sensors (the older ones SN 143053 and SN144219) had another problem, probably a broken wire.
>
> We are sorry for that and apologize for the inconvenience that caused for you.
>
> Regards
>
> Christa
>
> Kind regards / Mit freundlichen Grüßen
>
> **i. A. Dr. Christa Dumschat**
>
> Chemist R&D
>
> **Honeywell I Safety & Productivity Solutions**
>
> **Advanced Sensor Technologies (AST)**
>
> **Honeywell Healthcare Solutions**
>
> Office: +49 3841 360 232
>
> Fax: +49 3841 360 222
>
> Christa.Dumschat@honeywell.com
>
> www.envitec.com

Honeywell Healthcare Solutions GmbH

Alter Holzhafen 18

23966 Wismar, Germany

Trade Register: Schwerin, HRB 1838

Managing Director: Marcus Ostländer

Von: Main Account <viamedinbox@gmail.com> **Im Auftrag von** Steve Nixon
Gesendet: Montag, 22. Mai 2023 17:10
An: Lingies, Maik (GE0Y) <Maik.Lingies@honeywell.com>; Dumschat, Christa <Christa.Dumschat@honeywell.com>
Cc: Schliemann, Andre <Andre.Schliemann@honeywell.com>; Wagner, Jessica (GE0Y) <jessica.wagner@honeywell.com>
Betreff: [External]E1002737, OOD103 Oxygen Sensor connector issues?

E1002737, OOD103 Oxygen Sensor

VST part number: 8010020

Envitec RMA : **300263739**

Serial numbers: **D109803, D110940, D111154, D111156**

Dear Maik / Christa

Further to discussions at your offices I am curious regarding recent 8010020 sensor returns. We have had few sets of returns that describe the same fault, but just from the one OEM. Other OEMs have had sensors with the same type of fault (unstable output), but have not suggested that it is due to the connector.

The reported problem is that the connection is unstable. However, when the Molex connector lock is released and the connector is pulled halfway up the connector pins, then the sensor connection is good and the sensor works fine. The OEM tests the sensors with other assemblies and the fault travels with the sensors.

I find it hard to believe that just this version has the problem, since the same sensor type is supplied to other OEMs; the only difference being the labelling.

Have you seen this problem before?

Has there been a change in type of Molex connector pins being used?

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Steve

Steve Nixon

Director - Viamed Ltd.

Office: +44 (0)1535 634542

Mobile: +44 (0)7850 252267

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Steve

Steve Nixon
Director - Viamed Ltd.

Office: +44 (0)1535 634542
Mobile: +44 (0)7850 252267

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