Re: Update specification OOM112

1 message

Steve Nixon <steve.nixon@viamed.co.uk> 29 July 2020 at 11:34
Reply-To: steve.nixon@viamed.co.uk
To: "Dumschat, Christa" <Christa.Dumschat@honeywell.com>
Cc: "Wagner, Jessica (GE0Y)" <Jessica.Wagner@honeywell.com>, "Sproessel, Marko (GE0Y)" <Marko.Sproessel@honeywell.com>, "Dreyer, Stefan" <Stefan.Dreyer@honeywell.com>

Thanks you Christa, it sounds like a good plan.

We will try and get more original sensors. I suspect that the Gambert sensors fall below the minimum threshold, could be due to the impedance?

Steve

---------- Forwarded message ---------
From: **Dumschat, Christa** <Christa.Dumschat@honeywell.com>
Date: Wed, 29 Jul 2020 at 10:59
Subject: Update specification OOM112
To: steve.nixon@viamed.co.uk <steve.nixon@viamed.co.uk>
Cc: Wagner, Jessica (GE0Y) <Jessica.Wagner@honeywell.com>, Sproessel, Marko (GE0Y) <Marko.Sproessel@honeywell.com>, Dreyer, Stefan <Stefan.Dreyer@honeywell.com>

Hi Steve,

we had a meeting about OOM112 this week. As a fast action, we changed end test specification to 33.5mV to 40 mV until the end test equipment is changed. We hope end test equipment change can be finished in next time and we can change minimum voltage to 35mV.

I have a further question:

Do you have access to original cells from GE (preferably both types)? Do you know what problem is caused by the Gambert cells?

Regards

Christa

Kind regards / Mit freundlichen Grüßen

i. A. Dr. Christa Dumschat

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Managing Director: Marcus Ostländer

Von: Dumschat, Christa
Gesendet: Mittwoch, 15. Juli 2020 13:55
An: steve.nixon@viamed.co.uk
Cc: Wagner, Jessica (GE0Y) <Jessica.Wagner@Honeywell.com>; Sproessel, Marko (GE0Y) <Marko.Sproessel@Honeywell.com>; Dreyer, Stefan <Stefan.Dreyer@Honeywell.com>
Betreff: AW: QA specification of OOM112

Hi Steve,

thank you for the mail and the very helpful information about the application of the sensor.

I asked my colleagues from production engineering about the status of QA test equipment development for higher sensor voltages. A first test version of the equipment was prepared in the beginning of this year but is not yet tested due to changed priorities after Covid 19 outbreak. I will discuss it and the end test parameters next week or the week after with my colleagues (currently some important people are out of office).

I have a further question:

Do you have access to original cells from GE (preferably both types)? Do you know what problem is caused by the Gambert cells?

b. If the oxygen sensor part number is M-43GE (see Figure 6), do not reinstall the oxygen sensors. Proceed to step 5.

Figure 5: Oxygen sensor part number: 6600-1278-600

Figure 6: Oxygen sensor part number: M-43GE

Is there any news about the bag?

Regards

Christa

Kind regards / Mit freundlichen Grüßen

i. A. Dr. Christa Dumschat

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Managing Director: Marcus Ostländer

Von: Main Account [mailto:viamedinbox@gmail.com] **Im Auftrag von** Steve Nixon
Gesendet: Freitag, 10. Juli 2020 14:28
An: Dumschat, Christa <Christa.Dumschat@Honeywell.com>
Cc: Wagner, Jessica (GE0Y) <Jessica.Wagner@Honeywell.com>
Betreff: [External] QA specification of OOM112

Hi Christa

At the moment GE are having problems with their oxygen sensors, primarily the ones produced by ITG. We are also starting to get queries from our customers.

At our meeting in November 2019 it was agreed that we increase the output of the OOM112 (R-43V) to 40.00 mV. Originally the problem was with the cathode (limited the output), but at the meeting it was stated that the problem was not being able to achieve the high output level, it was that your QA test equipment did not go as high as 40.00 mV. My understanding was that this problem was to be addressed.

OOM112

The current official published specification is 28.00 mV to 50.00 mV

The current QA specification is 31.00 mV to 40.00mV

We know that the GE equipment has problems with sensors <33.00 mV. This is stated in the service manuals

So, we have a potential problem with sensors between 31.00 mV and 33.00 mV.

From the last batch of 160 sensors

63 were <33.00mV

Lowest 32.00mV, highest 39.91mV

Previous batch of 100 sensors

4 were <33.0.0mV

Lowest 32.20mV, highest 38.58

In conclusion we ideally need the outputs to be circa **40.00 mV, but as an absolute minimum production QA specification I would suggest 35.00 mV**. This allows for atmospheric pressure changes and a little for initial usage.

I would suggest to not change the official published specification of: 28.00 mV to 50.00 mV

NOTE: customers do report that the output of our sensors do drop more than the GE sensors when installed (under load).

My colleague Steve Hardaker has also updated his findings, see attached and as follows:

All customers that have reported problems with Viamed sensors report no such issues with the original GE sensors and also claim that the outputs of GE sensors are higher, typically > 40 mV.

In conclusion, the preferred specification would include a lower limit of >35 mV whilst under load to account for variations in output due to fluctuations in atmospheric pressure, and to allow for some drift in output over the lifetime of the sensor.

Regards

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Steve

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