



Ryan Swaine <viamed.ryan.swaine@gmail.com>

Re: Analox O2 E11 issues

1 message

Ryan Swaine <ryan.swaine@vandagraph.co.uk>

27 January 2025 at 17:24

Reply-To: ryan.swaine@vandagraph.co.uk

To: Phil croker <philcroker@hotmail.com>

Hi Phil

I'm sorry to hear about the issues you're experiencing. It's difficult to determine the problem without conducting the testing myself. In cases like this, we would normally request the sensor to be returned, but I understand this is challenging given your location.

We will arrange to send you a replacement sensor. Once you receive it, please let me know how you get on.

Best regards

Ryan

Ryan Swaine

General Manager

VANDAGRAPH Ltd.

<http://www.vandagraph.co.uk>Email ryan.swaine@vandagraph.co.uk

Tel: +44 (0)1535 634900

Mob: +44 (0)7803 907117

On Sat, 25 Jan 2025 at 05:32, Phil croker <philcroker@hotmail.com> wrote:

Hi Ryan

Thanks for the info. I followed your advice and calibrated in 100% O2 with as gentle a gas flow as I could feathering the cylinder valve. I then let the numbers drop in ambient air, allowing for temp and humidity compensation. The numbers seem to settle around 19.5%, which is about a 5% discrepancy?

If I do it the other way around ie calibrate in still air to 20.6 and then analyse the known 100% O2, I still get an overshoot of 2-3% to about 103%.

What do you think? Is it a sensor issue or something else that I'm missing. Appreciate your thoughts.

Regards

Phil

Sent from my iPhone

On 20 Jan 2025, at 21:35, Ryan Swaine <ryan.swaine@vandagraph.co.uk> wrote:

Hi Phil

Thank you for your email.

It is very difficult to get an accurate reading in a high O2 gas when calibrating in air. If you try calibrating the analyser in O2 it will be more accurate. Please calibrate it in O2 and then see what results you get in air?

The other issue is whether the gas is flowing or still? The design of the O2E11 means that it will be affected by the additional pressure of a flowing gas, so if you calibrate in air (still) and then measure in a flowing gas, you are likely to get an elevated reading. You can try calibrating in the same conditions as you are measuring.

Please let me know how you get on, if you continue to have problems or you have any questions then please do not hesitate to contact me.

Kind regards
Ryan

Ryan Swaine
General Manager
VANDAGRAPH Ltd.
<http://www.vandagraph.co.uk>
Email ryan.swaine@vandagraph.co.uk
Tel: +44 (0)1535 634900
Mob: +44 (0)7803 907117

On Sun, 19 Jan 2025 at 04:45, Phil croker <philcroker@hotmail.com> wrote:

Hello there

Hope you are well. Not sure if you can help me with advice, but I thought I'd ask. I have the above type O2 analyser with a Vandagraph R-33DE sensor in it, which I replaced about 12 months ago. I've been using it to check scuba gases, calibrating to air 20.9 before analysing. I'm getting variable readings, and when checking 100% O2 the readout will climb above 100%, with the readout climbing to at least 102%. Would this be a cell issue? I usually get a good lifespan from Vandagraph sensors, but nothing is perfect I suppose. What are your thoughts?

Regards
Phil Croker