



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

Re: Polymer resin oxygen sensor

1 message

Steve Nixon <steve.nixon@viamed.co.uk>
To: J Schwarz <j.schwarz@sensatronic.com>

24 January 2018 at 13:42

Sorry Jens, a few more questions:

What is the resolution of the sensor?

Can it work down to 0.1% oxygen?

Does CO2 adversely affect the sensor?

Does Helium adversely affect the sensor?

Does Nitrogen adversely affect the sensor?

Can the sensor be exposed to 100% Nitrogen for long periods, without any adverse effect on performance?

I assume that humidity still has to be over 5%? Is 99% humidity (non condensing) the upper limit?

Power supply	+5 V
Power/current requirement	? μ A
Response time	1.5 to 2.0 s
Sensor output	? μ A
Electronics output signal	either mV or V
Current linear operating range	0 to 35% Oxygen
Accuracy	1% oxygen
Communication interface	USB or RS232
Calibration interval (21%)	3 months ?
Life time of sensor	3 years ?
Operating humidity	5 – 99% (non condensing)

Steve

On 22 January 2018 at 07:32, J Schwarz <j.schwarz@sensatronic.com> wrote:

Hi Steve,

Yes, the electronics is actually powered with 5 V DC. We are using the battery and step-up controller to 'build' the 5 V.

The T90 response time is in the range of 1.5 to 2 sec. response time also depends on the design of the gas path etc.

Mit freundlichen Grüßen,

Kind regards,

Jens Schwarz

Sensatronic GmbH

Am Ring 9

D-23970 Wismar, Germany

Tel. +49-3841-2252 440

Fax +49-3841-2252 442

j.schwarz@sensatronic.com

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Von: steve.nixon.viamed@googlemail.com [mailto:steve.nixon.viamed@googlemail.com] **Im Auftrag von** Steve Nixon

Gesendet: Freitag, 19. Januar 2018 18:01

An: J Schwarz <j.schwarz@sensatronic.com>

Betreff: Re: Polymer resin oxygen sensor

Thanks Jens

So, we only need say 5V supply to power the unit? In principle it could be powered by standard batteries?

Do you know what the T90 response time of the sensor is?

Regards

Steve

On 19 January 2018 at 14:46, J Schwarz <j.schwarz@sensatronic.com> wrote:

Hi Steve,

I am sending attached a short instruction for the demo unit.

Regarding the sensor specs, here are some facts:

Power requirement: Depends on the driving electronics plus sensor. The sensor itself requires a few micro amps only;

Signal output: The sensor is giving few μA @21%O₂. The output of the electronics is V or mV. The sensor requires a potentiostatic driving circuit with I/U transducer.

Drive electronics: Yes, I think it makes sense that we supply the drive electronics. They can also develop their own, but it may take much time. We have some experience in the meantime. However, first we need to understand the application and then we have to adjust the electronics for this.

Communication interface: We can go with RS232 or USB, whatever is required. The USB interface at the demo unit is for charging only. There is actually no usable protocol implemented.

Function of LEDs: see the attached IfU

Regarding sample sensors, I will try to find some and send them to you on Monday.

Have a good weekend.

Mit freundlichen Grüßen,

Kind regards,

Jens Schwarz

Sensatronic GmbH

Am Ring 9

D-23970 Wismar, Germany

Tel. +49-3841-2252 440

Fax +49-3841-2252 442

j.schwarz@sensatronic.com

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Von: steve.nixon.viamed@gmail.com [mailto:steve.nixon.viamed@gmail.com] **Im Auftrag von** Steve Nixon

Gesendet: Freitag, 19. Januar 2018 13:38

An: J Schwarz <j.schwarz@sensatronic.com>

Betreff: Re: Polymer resin oxygen sensor

Sorry Jens, the unit has just arrived.

What are the power requirements of the sensor?

What is the signal output?

Would we supply the drive electronics?

What would be the communications interface?

At some stage can you please let me have a couple of examples of the actual sensors. They don't need to be working.

I'll charge up the unit and see what it does.

In the meantime what are the functions of the LEDs?

Blue

Amber

Green

Red

Steve

On 19 January 2018 at 12:01, Steve Nixon <steve.nixon@viamed.co.uk> wrote:

Hi Jens, did you ship the demo unit and samples sensors?

Steve

On 11 January 2018 at 15:38, Steve Nixon <steve.nixon@viamed.co.uk> wrote:

That's great news, thank you Jens.

Steve

On 11 January 2018 at 15:13, J Schwarz <j.schwarz@sensatronic.com> wrote:

Hi Steve,

Sorry for being late with the demo unit. We had to solve a problem with an electronic component that we used for the old (CO2) demo unit (charging circuit), but which no longer available. We had to substitute this by another component which twice killed the charging circuit. This problem is solved now. We have the unit running for tests since three days and will send it out tomorrow morning.

I will send a short instruction separate by email.

Mit freundlichen Grüßen,

Kind regards,

Jens Schwarz

Sensatronic GmbH

Am Ring 9

D-23970 Wismar, Germany

Tel. +49-3841-2252 440

Fax +49-3841-2252 442

j.schwarz@sensatronic.com

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Von: steve.nixon.viamed@gmail.com [mailto:steve.nixon.viamed@gmail.com] **Im Auftrag von** Steve Nixon

Gesendet: Donnerstag, 11. Januar 2018 11:26

An: J Schwarz <j.schwarz@sensatronic.com>

Cc: Bernd Lindner <b.lindner@bluepoint-medical.com>

Betreff: Polymer resin oxygen sensor

Hi Jens

Sorry to hassle you, but what is the schedule for the demo unit of the polymer resin oxygen sensors? The reason why I'm enquiring is that I am planning more customer visits, so I can delay a little if the demo unit is due soon.

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Steve

Steve Nixon

Director - Viamed Ltd.

Office: [+44 \(0\)1535 634542](tel:+44201535634542)

Mobile: [+44 \(0\)7850 252267](tel:+44207850252267)

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Steve

Steve Nixon

Director - Viamed Ltd.

Office: [+44 \(0\)1535 634542](tel:+44201535634542)

Mobile: [+44 \(0\)7850 252267](tel:+44207850252267)

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Director - Viamed Ltd.

Office: [+44 \(0\)1535 634542](tel:+44201535634542)

Mobile: [+44 \(0\)7850 252267](tel:+44207850252267)

01/05/2018

Gmail - Re: Polymer resin oxygen sensor

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Steve

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Director - Viamed Ltd.

Office: [+44 \(0\)1535 634542](tel:+44(0)1535634542)

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