



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

Fwd: Pressure pots for testing solid state polymer oxygen sensor

1 message

Steve Nixon <steve.nixon@viamed.co.uk>

23 February 2018 at 14:57

To: peter.koller@ecsense.de

Cc: axel.solbach@ecsense.de, Bernd Lindner <b.lindner@bluepoint-medical.com>, Jens Schwarz <j.schwarz@sensatronic.com>, John Lamb <john.lamb@viamed.co.uk>

Bcc: Derek Lamb <derek@lamb.uk.net>

Hi Peter / Axel

Please see the email below (pictures attached) which I originally sent to Bernd and Jens.

Jens currently has the Min Check unit with the pressure pot threaded cap sensor head with 3 x 3.5mm jack connectors. Would you like to use one of the other sensor checkers, perhaps the standard one would be suitable at the moment as you will need to interface the raw signal directly.

I'll cover the requirements for the pot threaded cap assembly on the next email.

Steve

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

From: **Steve Nixon** <steve.nixon@viamed.co.uk>

Date: 5 July 2016 at 12:25

Subject: Pressure pots for testing solid state polymer oxygen sensor

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

Hi Bernd

The following is further to our discussion regarding testing the solid state polymer oxygen sensor prototypes with a pressure pot.

See attached pictures.

I suggest that initially I send you a Mini Check to test that the sensor in principle works to >1 bar ppO₂. As discussed the divers usually use at 1.2 to 1.4 bar ppO₂, but the OEMs test to 1.8 or 2.0 bar ppO₂.

Picture 1 Mini Check - front view.

Picture 2 Mini Check - rear view.

Picture 3 Mini Check - opened.

Mini Check has a 0 - 1.0 bar gauge for use with oxygen. I can supply a flying lead output cable as shown. Is the 3.5 mm sensor connections OK? Do you need the cylinder hose supplying? The one shown has a UK and Euro adapter fitted.

We also have a standard Cell Checker, see Picture 2. This again has 0 - 1.0 bar gauge for use with oxygen. There are also three DVMs for the sensor mV output display.

Once the sensors are proven to be OK, we can supply the customized Cell Checker for more accurate testing, see pictures 5 & 6.

Picture 5 shows the unit with a digital pressure gauge fitted, in order to monitor the pressure in the pot. The main analogue gauge goes up to 10 bar and so does the digital one, so can be used with air or oxygen. We have also added a fine adjustment pressure output release valve. Picture 6 shows the same unit with a digital pressure gauge fitted together with digital pressure gauge and data logger interface, which we connect to a Pico Technology Picolog high resolution data logger.

Please let me know what you require and I will ship today via UPS.

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Steve

Steve Nixon
Director - Viamed Ltd.

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Steve

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6 attachments

1 Mini Check front view.JPG
391K



2 Mini Check rear view.JPG
579K



3 Mini Check opened.JPG
454K



4 Standard cell checker.JPG
347K



5 Custom cell checker, shown with digital gauge.JPG
763K



6 Custom cell checker, shown with datalogger interface.JPG
678K