

## EC Sense Electrochemical Oxygen Sensors Summary of Project Status

- 1) Ventilator oxygen alarm sensor, >20.9 % oxygen
- 2) Medical oxygen sensor, 10 – 100% oxygen
- 3) Rebreather applications oxygen sensor

**08.11.17 Offer supplied by EC Sense** - costs relating to the development of medical oxygen sensor, 10 – 100%

### 19-01-18 Oxygen alarm demo unit supplied by Jens

Indicators for: <18%, 18-23%, 23-25%, >35% oxygen

### 09-02-18 Meeting held at the offices of EC Sense – Munich.

Attendees: JSL, PK, AS, JS, SN

John specified initial milestones and asked for a custom pressure pot test cap to be produced and for a test pressure pot to be made available to EC Sense.

### 27-03-18 Custom Test Cap produced, for use with the pressure pots.

Three connection PCBs for EC Sense sensors are embedded into the cap together with a Molex connector for use with a standard galvanic electrochemical sensor (for performance benchmarking). Four separate cable assemblies (2m cable) have also been produced to connect to EC Sense test equipment.

### 04-04-18 Meeting held at the offices of Bluepoint Medical – Selmsdorf.

Attendees: BL, SN.

Discussed how to proceed, suggested conference calls and possible meeting in Munich.  
Discussed application for ventilator alarm and medical project quote from EC Sense.

### 16-04-18 Conference call

Participants: SN, JS, BL, PK, AS.

Reviewed projects. Agreed to initially proceed with ventilator oxygen alarm project. Bernd wants to suspend work on the rebreather applications until the medical applications have been investigated. To date there are no project costs for the rebreather applications.

### **23-04-18 Conference call**

Participants: SN, JS. BL did not participate

SN supplied proposals for 1st draft specifications

Conference call scheduled 02-05-18. Follow up to discuss specifications. JS to have drawn up official 1st draft. Once specifications, prices and costs agreed; we can start to arrange meetings with OEMs.

### **02-05-18 Conference call**

Participants: SN, JS, BL

Specifications reviewed, agreed to review the following week and also invite EC Sense to the conference call.

### **09-05-18 Conference call**

Participants: SN, JS, AS.

BL, PK, JL did not participate

Primarily review the specifications for the ventilator alarm sensor with Axel.

Specifications to be update by Jens. Next conference call arranged for Tuesday 15th at 10:00 CEST.

After the discussion, we should have agreed specifications which are sufficient to support provisional meetings with OEM ventilator manufacturers to confirm the viability of the project

### **15-05-18 Conference call**

Participants: SN, JS, AS.

BL unavailable.

Reviewed specifications. JS to edit the specifications and supply a copy of the project specifications for final review before the next conference call. We can then use this as a basis for one that can be shown to potential OEM customers, SN to prepare this version. Agreed to refer to the sensors as Low-Power Polymer Oxygen Sensor.

Next conference call scheduled for the 22<sup>nd</sup> May at 10:00 CEST.

## **22-05-18 Conference call**

Participants: SN, JS, AS.  
BL unavailable.

Prior to the meeting: JS supplied a copy of the updated specifications, SN supplied a project summary.

Next actions:

- 1) JS to update the specifications – **this was done immediately after the conference call.**
- 2) AS to supply EC Sense datasheet and sensor specification drawings – **this was done immediately after the conference call.**
- 3) SN to prepare a basic specification sheet that can be shown to OEM customers.
- 4) Viamed to arrange to meet with prospective OEM customer/s.
- 5) SN to discuss with BL & JS whether we officially proceed now with the medical oxygen sensor (10 – 100%) project, in line with the offer supplied by EC Sense.
- 6) The rebreather applications project is suspended for the time being. This will need project costings together with budgetary planning and agreement.