

**Important Notice:** Diving is a dangerous sport that can lead to injury or death. These instructions describe the procedure I have used to set up my rebreather to work with the X-Link™ rebreather interface and the X-1™ dive computer. These instructions have NOT been reviewed, tested, or approved by the rebreather manufacturer or Liquivision, and are not guaranteed to be safe or to constitute best practices. These instructions are provided as a courtesy to the diving community and as guidance only. Each diver is solely responsible for any and all loss or damage (including personal injury or death) resulting from following these instructions. In no event will the writer, Liquivision or any other person be liable for any loss or damage (including personal injury or death) arising from, connected with, or relating to these instructions.

## Connecting the X-Link to the Submatix Rebreather

BY: Christian Mueller (Copyright 2009)

EMAIL: christian-mueller@dtuag.de

This document covers two possible ways of connecting to the X-Link:

1. Buying a new sensor head
2. Adapting an older sensor head

### 1. Buying a new sensor head

Submatix offers the Multi Sensor Head to build into the Rebreather for PPO2 monitoring. Contact Submatix at [info@submatix.com](mailto:info@submatix.com) for more information. If you buy a new sensor head, you have to declare that you want to use it with the Liquivision X-Link and the amount of sensors you want to use.



Multi Sensor Head with PPO2-meter,  
HUD and cable with Fisher connector

The sensor head offers the possibility to install up to 3 sensors. You can use 2 sensors type SR22 WM, 2 sensors type PSR-11-39-MDSX or 3 sensors type PSR-11-39-MDSX.



2 x SR 22 WM



2 x PSR-11-39-MDSX



3 x PSR-11-39-MDSX

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Two configurations are possible:

1. You use one sensor for the Liquivision and X-Link and the other two for the Submatix Standart PPO2-meter.
2. You use all three sensors for the X1 parallel to the PPO2 meter, which means two of the three sensors are used for both

The unit comes completely ready wired for use. You can find more details about how to connect the sensors in the Submatix sensor head manual.

## **2. Using an older sensor head**

If you use an older sensor head, which is already configured for other PPO2 meters, you have to build in a new cable, which is configured for use with the X-Link.

The following parts are needed:  
(part numbers from <http://dtuag.eu> )



1 open ended cable with Fischer-connector (Part-No.: VRC10C)



3 Molex connectors to the sensor (Part-No.: MLX-3)



1 Cable fitting (Part-No.: SKUPG7)

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### Connection Method:

1. First cut the cable to your preferred length.
2. De-isolate the end to the sensor head
3. Connect the Molex connectors according to the connection plan.



### Connecting Plan:

Pol 1 green: NEGATIVE (-)

Pol 2 yellow: CELL 1

Pol 3 white: CELL 2

Pol 4 brown: CELL 3

**The negative one has to be used for all three cells.**

4. Close the fitting.

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