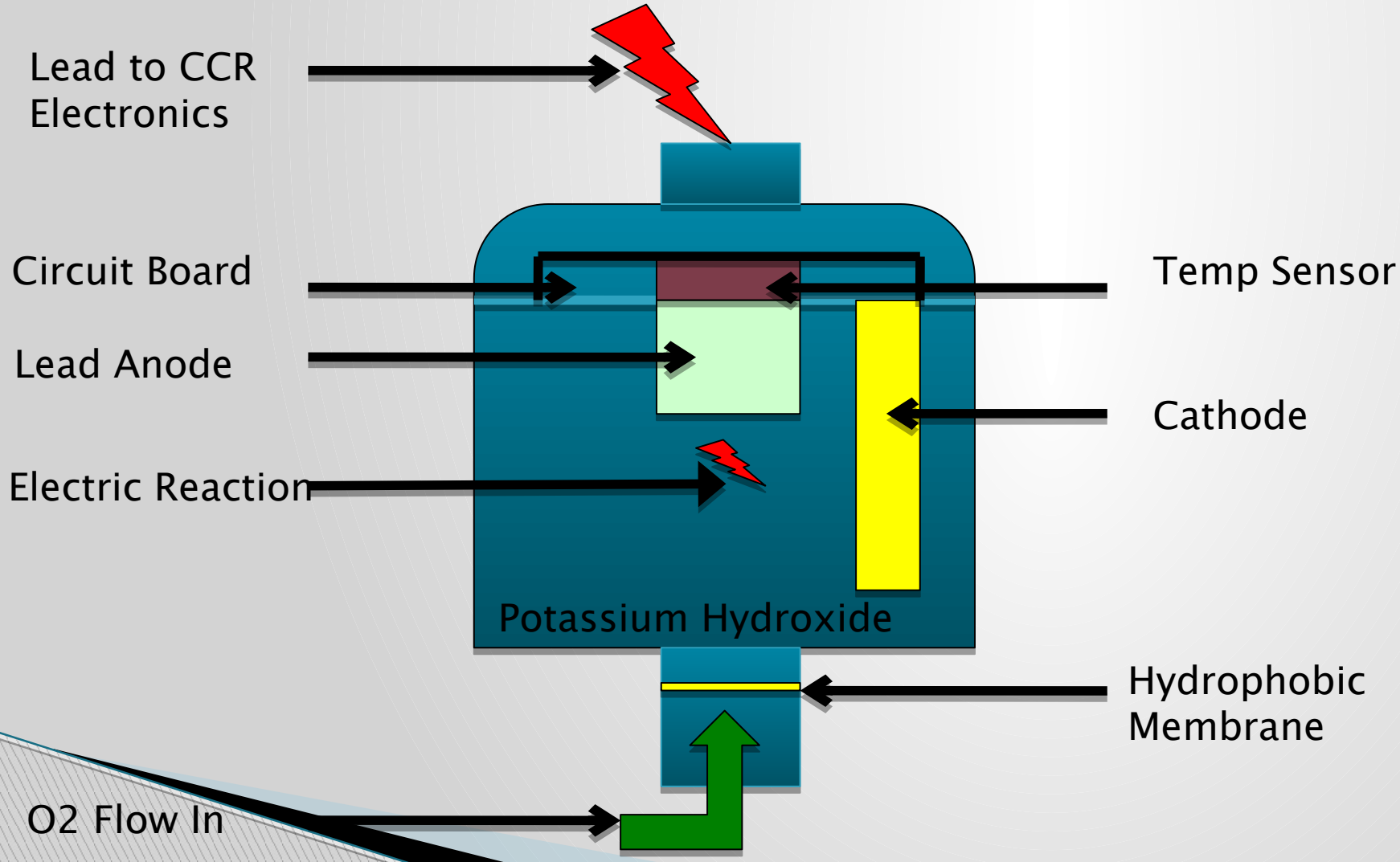
Oxygen Sensor

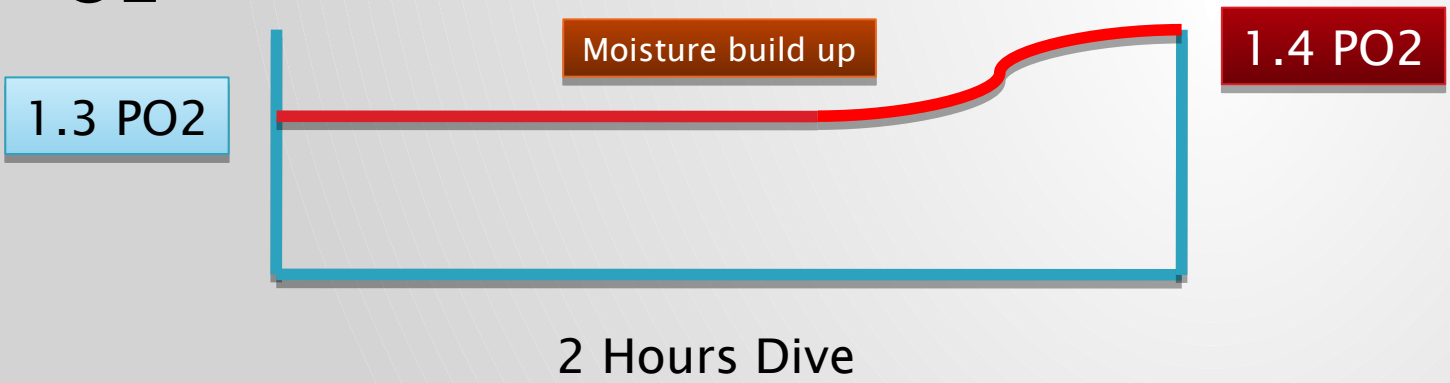


Oxygen Sensors

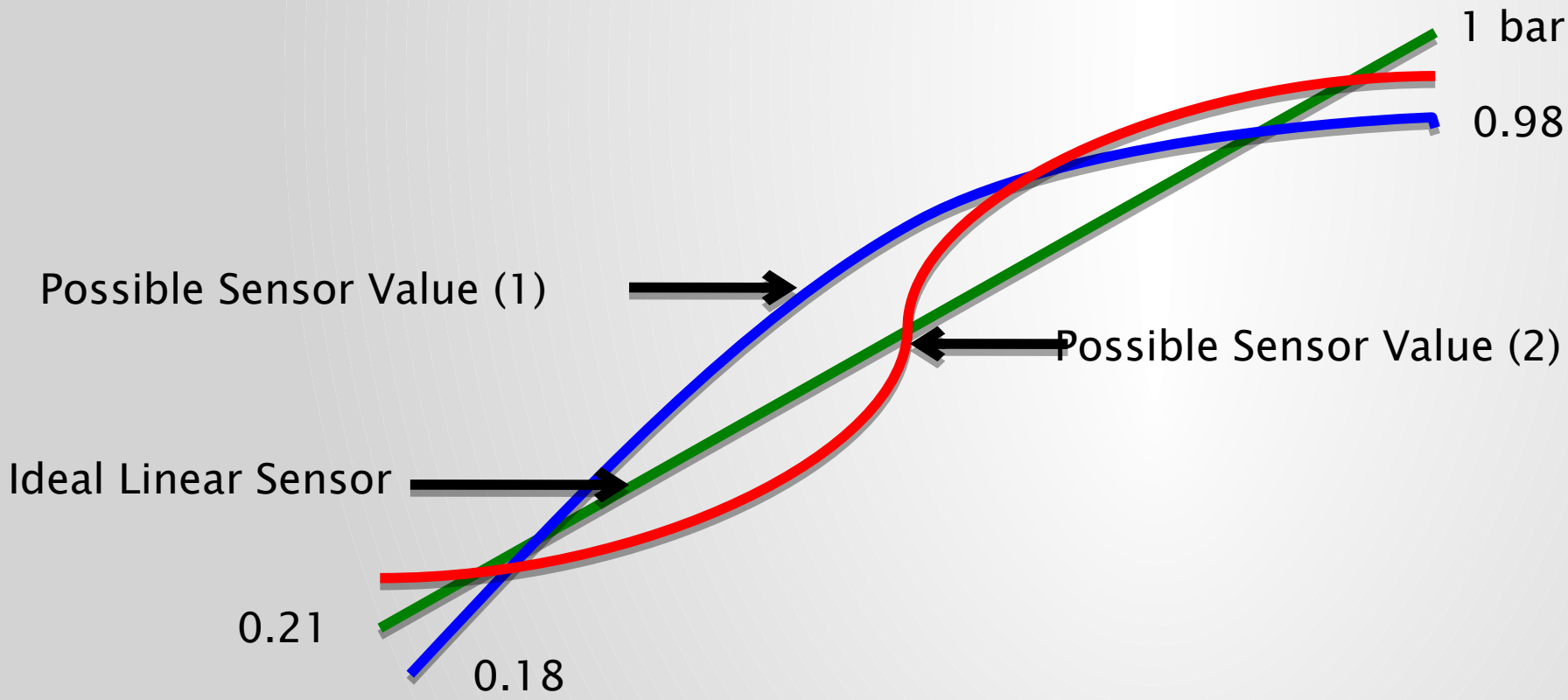
- Reads MV converts to PO2
- Calibrate brings slightly different MV readings into line after confirming a know cal gas.
- Linear Sensoring
- Calibrating 100% or 21% (Wet/Dry Sensors)
- Advantage & Disadvantage of 100% Calibration
- Advantage & Disadvantage of 21% Calibration
- Current Limiting MV to O2 (anode depleting)
- How often do I change my sensors?
- Why Dil Flush
- O2 Flush at depth?????

Oxygen Sensors

- Water on cell face
- Sensor need a full open face
- Moisture reduces the surface area thus reducing MV, so sensor reads low and adds O2



Linear Sensoring & Calibration

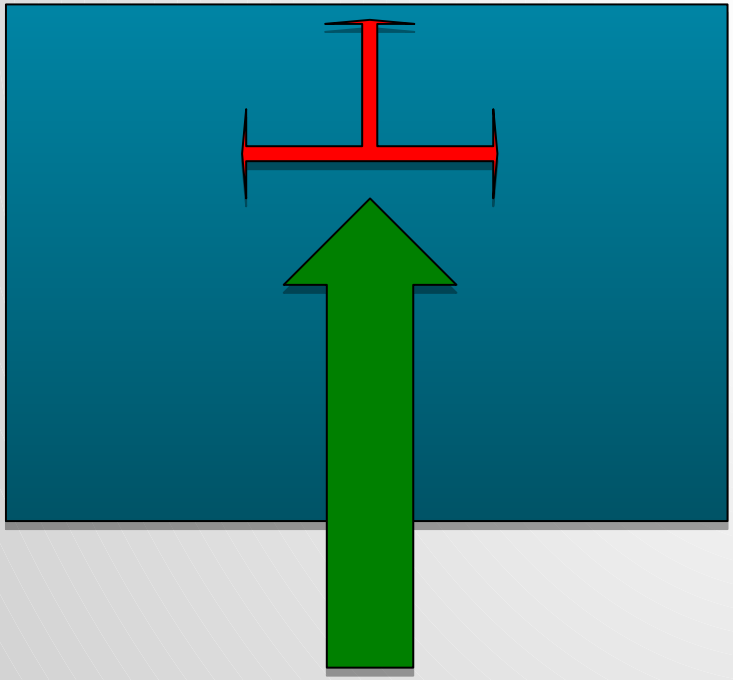


Solenoids

- Solenoids are simple upstream valves
- The more pressure acting upon them, the tighter they close
- Solenoids are responsible for the biggest battery drain in most rebreathers
- Battery warning level comes in at a higher voltage than is needed to open the solenoid

Solenoids

4.5 V to Open the solenoid at 7 Bar



Solenoids

5.2 V to Open the solenoid at 9 Bar