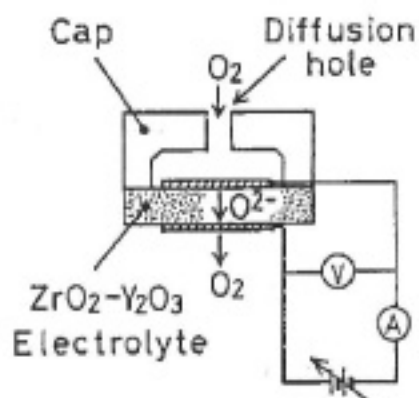


## Comparison of PureAire O<sub>2</sub> Zirconium Oxide Sensor Cell



**PureAire Current Limiting  
Zirconium Oxide O<sub>2</sub> cell**

**Does not require a reference gas.**

Operates in 100% N<sub>2</sub> environments

**Non-consuming sensor cell**

Cell Life is 10+ years

**Maintenance Free**

No cell replacement required

**No Calibration**

Non depleting and does not rely on partial pressure

**Operates at high and low temperatures**

Can operate down to -40C



**Partial Pressure Electrochemical Disposable  
O<sub>2</sub> Lead based sensor cell**

**Continuously Consuming sensor**

Lead anode is used up in detecting O<sub>2</sub>

**Drifts to changes in barometric pressure**

Operates on partial pressure of O<sub>2</sub> to drive molecules through the barrier into the sensor

**One to Two year cell life**

Warmer temperatures consumes the anode faster

**Requires frequent dynamic calibration**

Continuous exposure to ambient O<sub>2</sub> depletes the lead anode

**Cannot operate at low temperatures**

Cell electrolyte freezes and output drops to zero

**Lead contents presents disposal hazard**