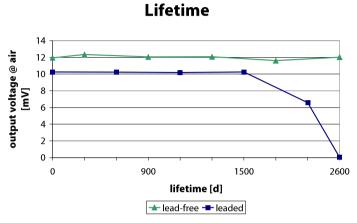
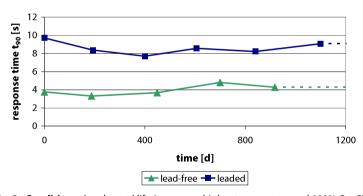


## .: KEY FEATURES :.

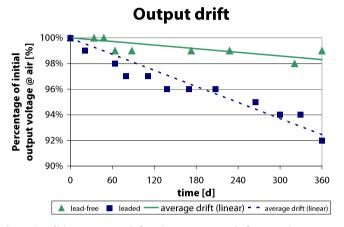


**Fig. 1: Conditions** According to the assumption of the anode, we set up an accelerated lifetimetest at high pressure and 100% O<sub>2</sub>. **Conclusion** Whereas the leaded cell will find its end of life at approximately 2600 days the lead-free cell keeps on going.

## Response time t<sub>90</sub>

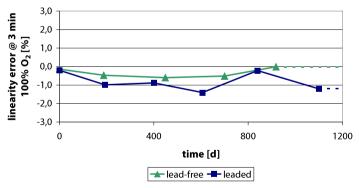


**Fig. 3: Conditions** Accelerated lifetime test at higher temperature and 100% O<sub>2</sub>. Since almost 3 years the response time is constant within a +/- 1.5s interval. **Conclusion** The lead-free sensor is even faster, 2.5 times than the leaded cell.



**Fig. 2: Conditions** Average drift within a time period of 12 month at room ambient conditions. **Conclusion** The lead-free cell is much more stable than the leaded sensor and drifts less by the factor of 4.5.

## **Linearity error**



**Fig. 4: Conditions** Accelerated lifetime test at higher temperature and 100% O<sub>2</sub>. Since almost 3 years the linearity error is lower than –1.5%. **Conclusion** Tops off the leaded cell as its linearity error is even lower as well as smoother.