



## ARTICLE

### **Zirconium oxide (ZD)**

The ZD21 is a high-performance transmitter for the detection of oxygen using an amperometric sensor, that is based upon an electrochemical oxygen cell.

This method is proper for the detection in percent range and in particles per million (ppm). The response time of the oxygen sensor is very quick and the detection principle features a good longtime stability and selectivity.

Setting the cell under voltage the oxygen ions are pumped from the cathode to the anode.

The cathode provides a gas diffusion barrier. Increasing the voltage leads to a saturation current that is equal to the oxygen concentration in the ambient air.

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