EUROX OXYGEN SENSOR *EpRox 900-FL**

for Protective Gases (e.g. N_2-H_2 for float glass)

The **heated, extractive Oxygen Sensor** is based on a **Zirconia cell** and is measuring the **real O_2 content** of **Protective Gases** even at **highest reducing atmospheres**.

Note: All of the **free O_2 content** in the measuring gas is reacting with all **oxidable components** until equilibrium and always the **free remaining oxygen content** is indicated.

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Benefits:

- Real Oxygen values due to particulary balanced measuring cell
- no adulterant electronical offsets of the masuring cell voltage required
- conversation to H_2O values and Dew-point temperature without calibration
- high savings of e.g. N_2 and H_2 consumption of up to 20% and more
- fast detection and localization of leakages by multiple sampling points distributed over the furnace sides and lenght
- comfortable monitoring and operation from the control room
- no longer laborious and imprecise measurements in the field

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Highlights:

- **exclusive** high operating temperature of **900°C** of the **Zirconium** cell (common cells operate up to 750 °C only) warrants a complete and **fast catalytic**
- "elpro" EUROX Electrode Protection: electrode protected by the patented **active ceramic diffusion block**
- high cell stability and chemical resistance due to **solid non-aging** platinum alloy electrodes (**no Pt-pastes**)
- **reliable electrode contacts by spring forces** in an unique way
- **shortest response times** of some 30 Seconds only (Dew-point transmitters: e.g. t 95 = ± 2 h)
- **elaborated stabilized measuring gas flow** even at varying flow resistances
- **low flow sensitivity:** a deviation of ± 5 l/h (max. ± 10 l/h) at recommended 30 l/h measuring gas flow leads only to comparable minor influence
- **rugged heating coil**, vastly oversized components, low voltage heating, PID-controlled
- **no sooting** at reducing atmospheres even over long times
- **offset-free thermodynamical calculations** enabled by the unique measuring cell balance
- **high capacity, low dead space filter** with **high separtion efficiency**

*FL: Float / Tinbath

euRox
OXYGEN MEASURING SYSTEMS