EUROX OXYGEN SENSOR EpRox 900-FH*

for Fuel Gas/Air-premixes (e.g. forehearth / feeder-heating)

The heated, extractive Oxygen Sensor is based on a Zirconia cell and is measuring the real O₂ content of fuel gas/airpremixes by an "ideal, stoichiometric combustion" i.e. the measured oxygen content equals the flue gas after an "ideal burner" as well. **Note:** All of the **free** O₂ **content** in the measuring gas is reacting with all **oxidable components** until equilibrium and always the **free remaining oxygen** content is indicated.



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 transformation of the gas-air-premixes
- "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 (t95) of some 30 Seconds only (Dew meters: 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 overzized 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

*FH: Forehearth / Feeder-heating



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