

O2 Sensor with digital display

O2 sensor for measuring oxygen levels in furnace atmospheres



NEW! • CQI9 conform • AMS 2759/10A/12A

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The online oxygen measurement imposes greater demands compared to hydrogen measurement in terms of sampling.

While hydrogen diffuses very quickly within the inspection room (approx. 6 seconds), in the case of oxygen it may occur that the measured gas phase is not connected or related to the real reactor concentration. The physical characteristics of the oxygen transport are overcome with an oxygen pump with a physical principle similar to that of heat convection.

New, revolutionary procedure for continuous oxygen measuring via modified zircon measuring cell (heated), attached to the recipient. The measuring cell is equipped with an oxygen pump and provides permanently an exchange of the atmosphere at the measuring cell. The oxygen pump works according to a physical principle similarly the heat convection. The sensor is not applicable for carburizing processes.

Fields of application:

- Nitriding plants at pre-oxidation, post-oxidation, oxynitriding
- Residual oxygen measurement in vacuum plants (leakage rate determination)



