

Rhadox AMS 7800



Application / Measuring principle

The Rhadox AMS 7800 is designed for the measurement of the residual oxygen concentration of mix-gases, fuelgas-/air-mixture for the feed-forward regulation of the burning process and the adjustment of the burner during a commissioning.

The used measuring principle of our residual oxygen analyser is the catalytic oxidation. The gas / air mixture is fed (flameless) into the catalyst for the complete combustion. Following the combustion the gas mixture is measured by a ZrO₂-sensor and the residual oxygen concentration is determined. Our catalyst consists of Pt / Pd, which is evaporated on granulated aluminum oxide. The catalytic reactor is heated to about 400 ° C and regulated.

Technical data

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| Analyser | AMS 7800 |
| Measuring principle | Catalytic oxidazation |
| Catalyst | Pt/Pd on granulated Al ₂ O ₃ |
| Measuring principle | ZrO ₂ sensor with Pt-electrodes |
| Measuring range | 0...25 Vol%, adjustable |
| Analogue signal port | (0)4...20 mA oder 0...10 V, galvanisch isolated |
| Reproducability | +/- 2 % of the measuring value |
| Gas-Inlet pressure | Gas ≥ 0,1 bar (g), max. 17 bar (g) |
| Gas flow | 10...20 l/h |
| Pre-heating | Appr. 30 min. |
| Catalyst temperature | 380...405°C adjustable |
| Gas connection | 6 mm ferrule pack |
| Gas sampling | built-in inlet valve |
| Power supply | 110 or 230 VAC 50/60 Hz |
| consumption | 300 VA |
| Hi / Low Alarm | Temperature, potential free Relais contact, 24 V / 0,5A |
| Dimension wxhxd | 19"-/ 6HU electronic housing, IP20 |
| Version: AMS 7800 V-2019-06 | |

Specifications subject to change.