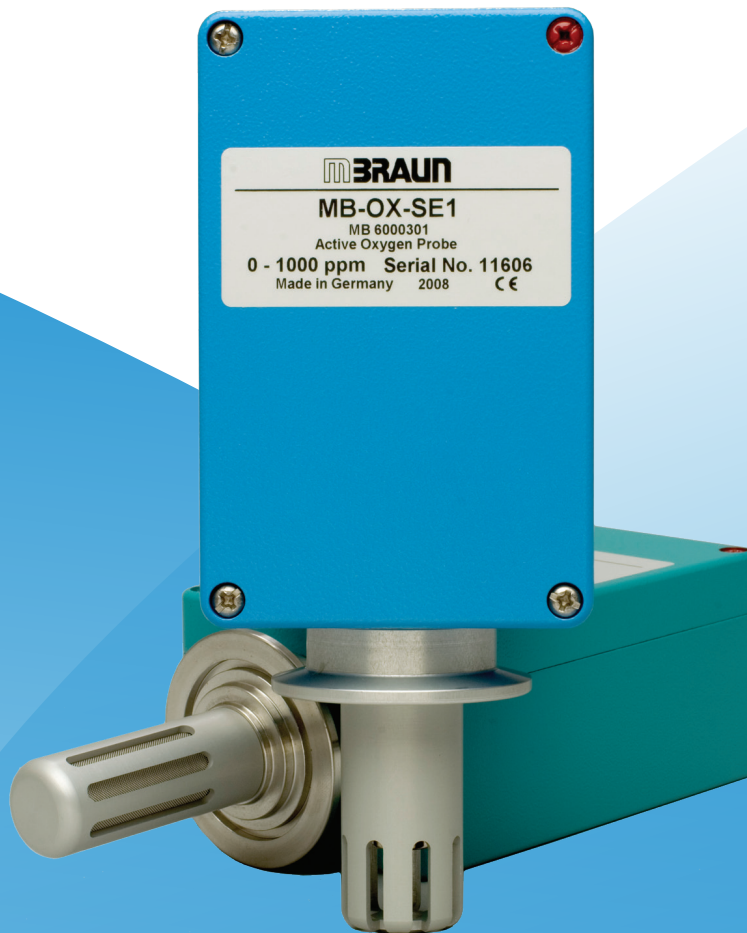


— turning ideas into solutions

mBRAUN

MB OX-SE1

OXYGEN ANALYZER



- Oxygen probe with integrated electronics 0 - 1000 ppm
- 0 - 10 V analog output
- Ultra high sensitivity

INERTGAS TECHNOLOGY

www.mbraun.com

The Oxygen probe MB OX-SE-1© serves to monitor the amount of trace Oxygen in inert gas systems. The effective range is 0-1000 ppm of Oxygen. The probe can be operated with PLC-systems, which are integrated in MBRAUN systems as standard equipment or with MB SSD-DIS© monitors, which are available separately.

The Oxygen probe MB OX-SE-1© is a combination of a sensor and electronics. The sensor-head is protected from external mechanical effects by means of a sturdy screw cap. The sensor element is a miniaturized Zirconium Dioxide plate operated at elevated temperature that is controlled by a platinum resistor.

The electronics are supplied with 24 V DC and deliver a 0 - 10 V signal proportional to the concentration of Oxygen. An additional input for the electronics allows the switching on and off of the sensor heating by means of the PLC.



MBRAUN offers recalibration services at our facility!

MB OX-SE1 Technical Data:

| | |
|-----------------------------|--|
| Dimensions | Length 190 mm, width 80 mm, depth 58 mm |
| Sensor Dimensions | Length 50 mm, diameter 26 mm |
| Flange | DN 40 KF |
| Supply Voltage | 24 V DC ± 10 % |
| Weight | 0.7 kg |
| Plug | RJ45, 8 pins (ethernet-like plug) |
| Operating Temperature | + 15°C to + 35°C (ambient) |
| Pressure | 800 - 1200 hPa (absolute pressure) |
| Diff. Pressure | Max. ± 100 hPa (between sensor and electronic) |
| Effective Range | 0 to 1000 ppm(v) Moisture |
| Sensitivity | 10 mV/ppm(v) |
| Response Time | Approx. 10 sec. (0-90 %) |
| Accuracy | +/- (2 % of displayed value + 1 ppm) |
| Zero Stability | better than 1 ppm / 24 hours |
| Drift (10 ppm(v)) | < 10 %/year |

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