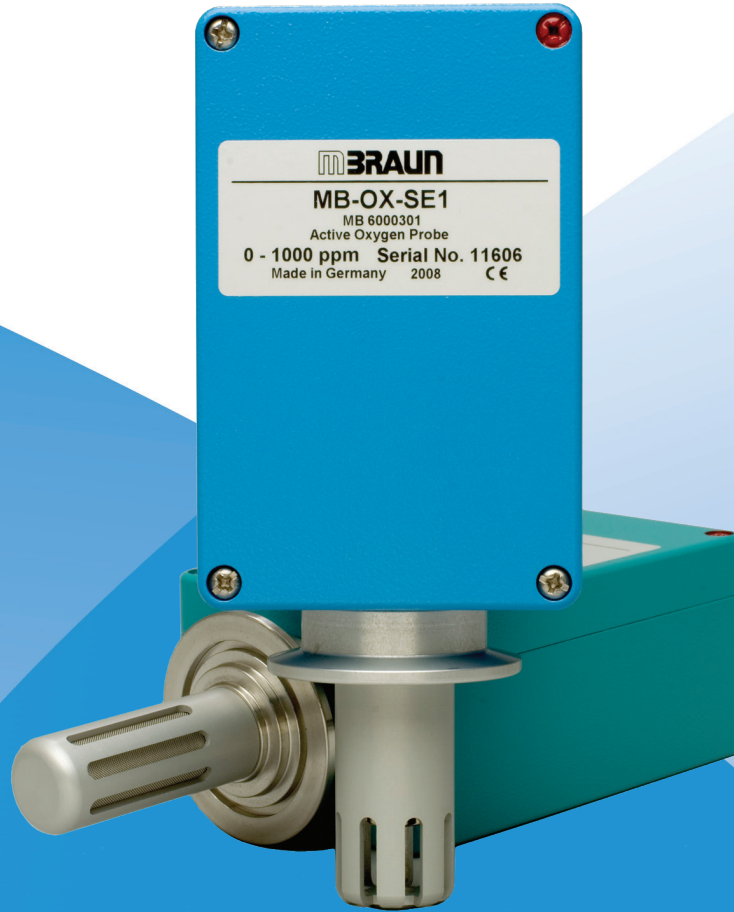


MB OX-SE1

OXYGEN ANALYZER



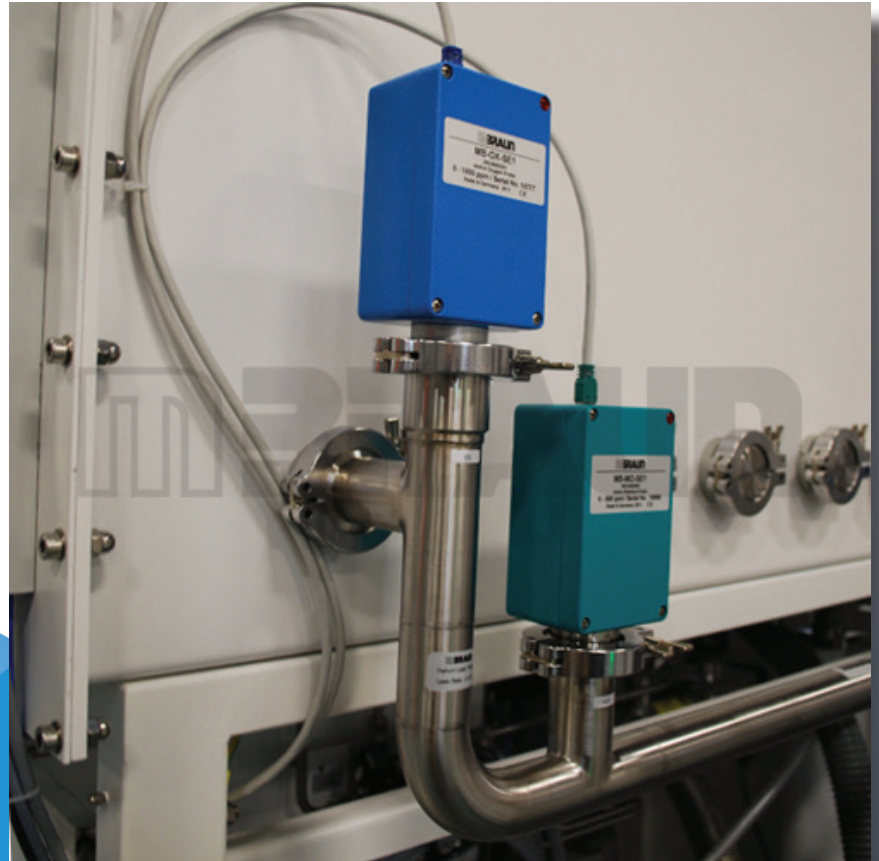
INERTGAS TECHNOLOGY

- Oxygen probe with integrated electronics
- Measuring range 0 - 1000 ppm Oxygen
- Long life time
- Very fast response

The MB-OX-SE-1 sensor has been designed to control the atmosphere of MBRAUN Systems for residual Oxygen content. The measuring range is 0 to 1000 ppm. 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 sensor MB OX-SE1© 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 head is a miniaturized Zirconium Dioxide 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.



MB OX-SE1 TECHNICAL DATA:

Overall Dimensions	Length 190 mm, width 80 mm, depth 58 mm
Sensor Dimensions	Length 45 mm, diameter 26 mm
Flange	DN 40 KF
Supply Voltage	24 V DC \pm 10 %
Weight	0.7 kg
Plug	RJ45, 8 pins (ethernet-like plug)
Operating Temperature	+ 15°C to + 27°C
Pressure	800 - 1200 mbar (Differential pressure sensor to electronics max. \approx 100 mbar)
Effective range	0 to 1000 ppm Oxygen
Sensitivity	10 mV/ppm
Response Time	approx. 10 sec. (0-90 %)
Accuracy	+/- (2 % of displayed value + 1 ppm)
Drift.....	10 %/year (@10 ppm)
Warming up time	10 min (for < 10 ppm approx. 6 hr)
Sensor life.....	approx. 5 years