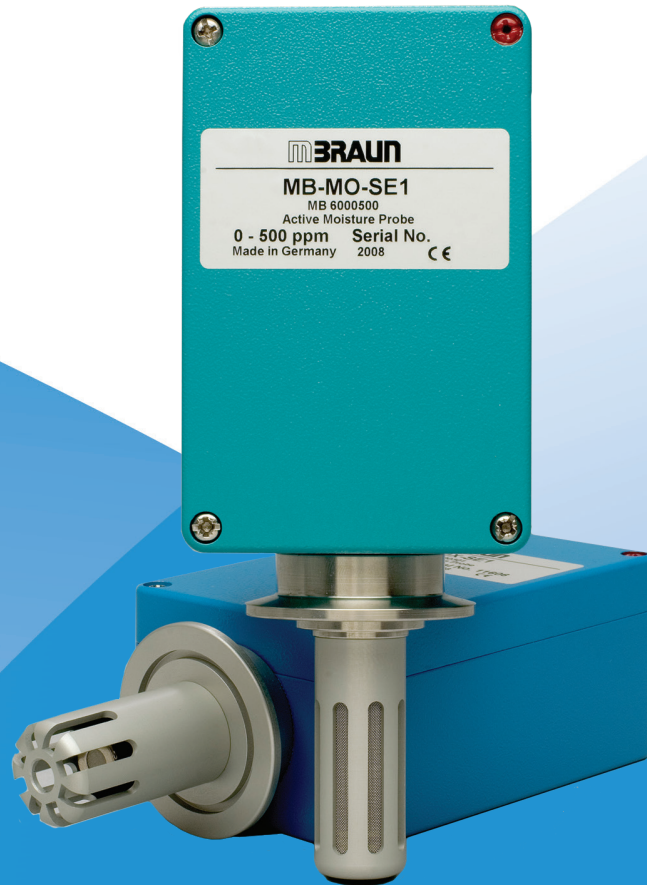


# MB MO-SE1

## MOISTURE ANALYZER



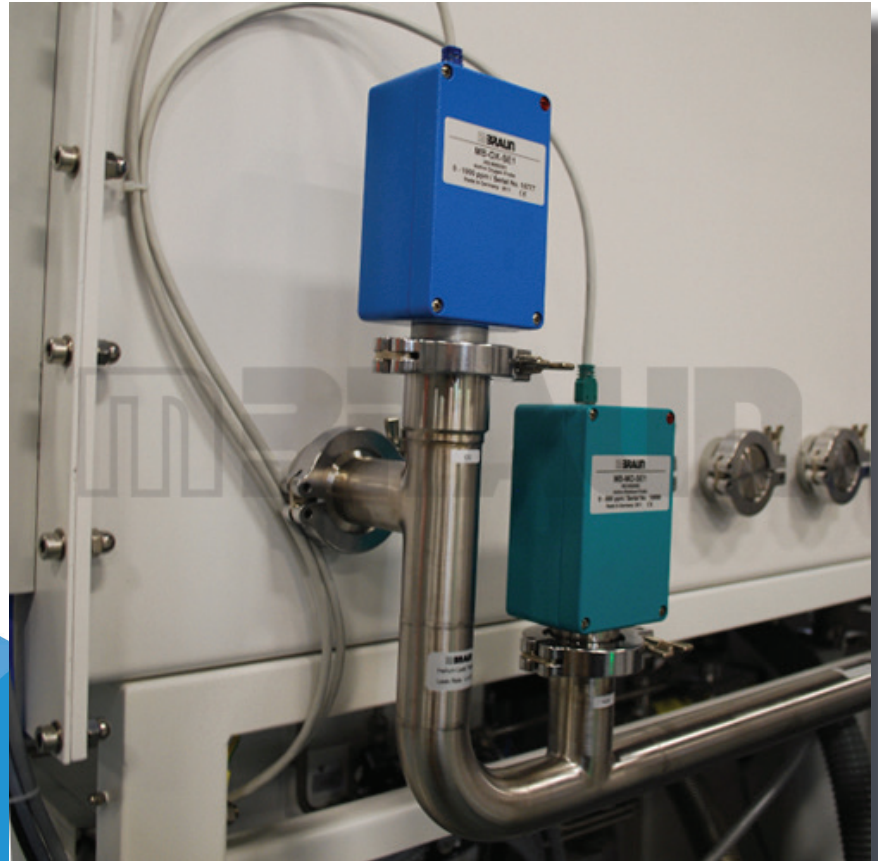
INERTGAS TECHNOLOGY

- Moisture probe with integrated electronics
- Measuring range 0 - 500 ppm Moisture (H<sub>2</sub>O)
- Long life time
- Very fast response

The MB-MO-SE1 has been designed to monitor the atmosphere of the MBRAUN Systems for residual moisture content. The measuring range is 0 to 500 ppm. The sensor 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 Moisture sensor comprises of a sensor along with special electronics. The sensor-head is protected from external mechanical effects by means of a sturdy screw cap. The sensor element is a double helix made of platinum wire fixed on a special insulation material. The sensor is coated with phosphoric acid.

The sensor leads pass through a vacuum-sealed feedthrough to the measuring electronics which are directly attached to a DN 40 KF assembling flange in a leak tight and screw-fitted housing. The electronics are supplied with 24 VDC and deliver a 0 - 10 V signal in proportion to the concentration of moisture.



## MB MO-SE1 TECHNICAL DATA:

Overall Dimensions .....	Length 205 mm, width 80 mm, depth 58 mm
Sensor Dimensions .....	Length 42 mm, diameter 14 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 (ambient)
Pressure .....	800 - 1200 mbar (Differential pressure sensor to electronics max. $\approx$ 100 mbar)
Effective range .....	0 to 500 ppm moisture
Sensitivity .....	20 mV/ppm
Response Time .....	approx. 120 sec. (0-90 %)
Accuracy .....	High precision range (0-10 ppm): $\pm$ (5 % of displayed value + 1ppm) Wide range (10 ... 100 ppm) $\pm$ 20 % of displayed value
Drift.....	10 %/year
Warming up time .....	10 min (for < 10 ppm approx. 6 hr)
Sensor life.....	approx. 5 years