

Oxygen Measuring Instruments
Systeme zur Messung und
Regelung von Sauerstoff



GSM-V6

The GSM-V6 oxygen measuring instrument, part of the GSM series, is a mobile oxygen measuring instrument for universal use. The GSM-V6's measuring principle is based on a heated zirconium oxide, which generates an oxygen partial pressure using the Nernst principle. The GSM-V6 features an integrated sample gas pump and a colour LCD matrix display for the measured oxygen content. The numerical and time-graphic representation of oxygen, lambda, carbon level, and dew point thus precisely reflects process parameters on the display of this oxygen measuring instrument. The integrated controller and individually adjustable limit values allow for reproducible control of oxidative process conditions.

Technical data GSM-V6

| | |
|-----------------------------|--|
| Measuring range | Lin 0 – 100 % Log $10^0 - 10^{-33}$ |
| Measuring speed | T90 < 2 s |
| Sensor warm-up time | approx. 15 min |
| Supply voltage | 100 – 240 V |
| Dimensions without handle | approx. 160 x 260 x 260 mm |
| Weight | approx. 4 Kg |
| Max. sample gas temperature | 80 °C |
| Max ambient temperature | 50 °C |
| Sample gas inlet | for pipe Ø 3 mm |

Application examples:

- Semiconductor manufacturing
- Process monitoring
- Analytical measurements
- Glass manufacturing
- Porcelain manufacturing
- Comparative measurements

| Accuracy table | |
|--|---|
| At standard temperature and pressure / in N2 | |
| Measuring range | |
| 10 ppm | +/- 0.25 ppm |
| 100 ppm | +/- 0.5 ppm |
| 1000 ppm | +/- 2 ppm @ 100 ppm +/- 0.5 ppm @ 10 ppm |
| 1% | +/- 4 ppm @ 100 ppm |
| 25% | +/- 0.03 % @ 1 % +/- 0.02 % @ 0.1 % |
| 100% | +/- 1 % @ 99 % |

Product highlights:

- Portable measuring instrument
- Touch LCD matrix display
- Adjustable parameters
- mA output
- Lin / Log switchable
- Atmosphere control
- Graphic display

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