

Oxygen Measuring Instruments
Systeme zur Messung und
Regelung von Sauerstoff



A19-N/NC

The A19-N/NC oxygen sensor, part of the A series, is a universally applicable oxygen sensor for measuring oxygen. The measuring principle of the A19-N/NC is based on a heated zirconium oxide, which generates an oxygen partial pressure using the Nernst principle. The A19-N/NC is designed for measurement in the measuring chamber. A supply module is required for the sensor to function.

Technical data A19-N/NC

Measuring range	Lin 0 – 100 % Log $10^0 - 10^{-33}$
Measuring speed	T90 < 2 s
Sensor warm-up time	approx. 5 min
Max. sample gas temperature	200 °C
Max temperature sensor head	80 °C
Installation thread	M27x2
Installation depth	30 mm incl. installation thread

Application examples:

- Additive Manufacturing
- Semiconductor manufacturing
- Heat treatment systems
- Soldering systems
- Welding Systems
- Combustion systems
- Process gas monitoring
- Food packaging

Accuracy table	
At standard temperature and pressure / in N2	
Measuring range	
10 ppm	+/- 0.5 ppm
100 ppm	+/- 1 ppm
1000 ppm	+/- 3 ppm @ 100 ppm +/- 1 ppm @ 10 ppm
1%	+/- 5 ppm @ 100 ppm
25%	+/- 0.03 % @ 1 % +/- 0.02 % @ 0.1 %
100%	+/- 1 % @ 99 %

Combination options:

A19-N:		Manual
U15-Digital	Flyer	Manual
Z19	Flyer	Manual
A19-NC:		Manual
U16-Digital	Flyer	Manual
Accessoires		Link