

Gas concentrations in the air

Carbon Monoxide Probe ADOS 592 TOX



- Applications: For measurement, control and warnings in garages, for monitoring the air quality with respect to the maximum allowable concentration at work places (MAC value, e.g. in laboratories and engine test benches)

! Operation with the device in SLEEP mode is not possible!

Technical Data

Gas:	CO
Measuring principle:	electrochemical reaction
Measuring range:	see types
Zero point error:	< 10 ppm CO
Gauge reading balance:	< 3 ppm CO
Error of meas. value:	±3% of full scale value
Zero point drift:	< 2% (1 year)
Reproducibility:	< 2% (1 year)
Linearity:	< 2% of full scale value
Settling time t_{90} :	< 60s
Transverse sensitivity:	< 2% by integrated filter

Nominal conditions:	20 °C, 50 % r.H., 1013 mbar
Operating conditions:	-10 to +40°C, Sensor in range temperature compensated > 15 to 90 % r.H. non-condensing
Life span of the meas. cell:	approx. 2 years typical
Output:	4 ... 20 mA on ALMEMO® connector
Supply voltage:	24V via ALMEMO® connector
Dimensions of meas. head:	Ø 80mm, height 80mm
Weight:	600g
Connecting cable:	1.5m, with ALMEMO® connector

Ausführung (incl. factory test certificate) Order no.

Carbon monoxide sensor including connecting cable 1.5m long for CO measurements in air
range: 0 ... 150 ppm **FYA600COB1**

range: 0 ... 300 ppm
range: 0 ... 5000 ppm
range: 0 ... 5 Vol.%

FYA600COB2
FYA600COB3
FYA600COB4

Oxygen Probe FYA600O2



- Examples from the range of applications: Measurements in air conditioning systems, air purifiers, oxygen rectifiers, greenhouses and oxygen incubators.
- Approved by PTB and approved for exhaust emission measurements in the automotive industry.

! A correction value can be stored in the ALMEMO® connector plug to compensate for the natural ageing of the probes, so optimum output characteristics can be ensured for the whole operating life.

Technical Data

Gas:	O ₂
Measuring principle:	electrochemical cell
Measuring range:	1 ... 100% O ₂ , linear
Accuracy :	1% O ₂
Resolution :	0.01% O ₂
Response time:	< 40s
Signal drift:	< 2% signal/month (typ. < 5% over operating life)
Offset voltage at 20°C:	< 20mV

Operating life:	2 years, if operated in 20.9% O ₂
Nominal conditions:	20°C, 50% rH, 1013mbar
Temperature range:	-20 to +50°C
Temperature compensation:	effective in range -10 to +40°C
Pressure range:	atm. pressure ±10%
Relative humidity:	0 to 99% non-condensing
Connecting cable:	adapter cable 1.5m long
Dimensions:	H 43 mm x Ø 29,3 mm

Types

Oxygen sensor including connecting cable 1.5m long for O₂ measurements in air **FYA600O2**

Order no.

For Reordering:

Oxygen sensor
ALMEMO® connecting cable

FY9600O2
ZA9600AKO2