

Gas concentrations in the air

Carbon Monoxide Probe FYA600CO



- 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	Transverse sensitivity:	< 2% by integrated filter
Measuring principle:	electrochemical reaction	Output:	4 ... 20 mA on ALMEMO® connector
Measuring range:	see types	Supply voltage:	from the ALMEMO® measuring instrument
Zero point error:	< 10 ppm CO	Ambient temperature:	-10 to +40°C, sensor temperature compensated in range
Gauge reading balance:	< 3 ppm CO	Air humidity:	0 to 90% non-condensing
Error of meas. value:	±3% of full scale value	Life span of the meas. cell:	approx. 2 years typical
Zero point drift:	< 2% (1 year)	Dimensions of meas. head:	Ø 80mm, height 80mm
Reproducibility:	< 2% (1 year)	Weight:	600g
Linearity:	< 2% of full scale value	Connecting cable:	1.5m, with ALMEMO® connector
Settling time t_{90} :	< 60s		

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	Operating life:	2 years, if operated in 20.9% O ₂
Measuring principle:	electrochemical cell	Nominal conditions:	20°C, 50% rH, 1013mbar
Measuring range:	1 ... 100% O ₂ , linear	Temperature range:	-20 to +50°C
Accuracy :	1% O ₂	Temperature compensation:	effective in range -10 to +40°C
Resolution :	0.01% O ₂	Pressure range:	atm. pressure ±10%
Response time:	< 40s	Relative humidity:	0 to 99% non-condensing
Signal drift:	< 2% signal/month (typ. < 5% over operating life)	Connecting cable:	adapter cable 1.5m long
Offset voltage at 20°C:	< 20mV	Dimensions:	H 43 mm x Ø 29,3 mm

Types

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

Order no.

FYA600O2

For Reordering:

Oxygen sensor
ALMEMO® connecting cable

FY9600O2
ZA9600AKO2