

GAS CONCENTRATION IN AIR

Ozone Measuring Transducer Type FYA60003



- ▶ Suitable for many measuring tasks where ozone measurements for control purposes were too expensive to date, e.g. for leakage tests in industry, for protection of health and safety standards at work, for mobile air quality measurements etc.
- ▶ Each ozone sensor is supplied with a manufacturer's test certificate.
- ▶ As a result of the high long-term stability, only small maintenance costs.

Technical Data:

Gas:	O ₃ (ozone)
Measuring principle:	electrochemical three-electrode sensor
Measuring range:	0 ... 300 ppb
Detection limit	20 ppb
Accuracy:	typically 5% of final value under nominal conditions (for intermittent operation)
Long term accuracy:	after 12 months under nominal conditions typically 5% of final value (for intermittent operation)
Exposure period :	until specification is reached, at least 2 hours (at 200 ppb); for a prolonged period the device was in an ozone-free environment
Meas. interval:	pump on: 5min pump off: 10min
Pump flow rate:	500ml/min
Signal output:	0 ... 2V, load resistance > 100kΩ
Power supply:	6 to 14V, stable
Current consumption:	pump on : 50 mA, typical pump off : 25 mA, typical pump blocked : 180 mA, typical
Overload capacity:	1 ppm
Expected useful life :	Sensor, typically 24 months (at 20 °C) pump, typically 6000 hours
Nominal conditions:	20°C, 30% r.H., 1013 mbar, no contaminations of the contact surfaces
Operating range :	-20 to +40 °C / 30 to 80 % RH
Storage temperature:	0 to 20°C, at 30 to 80% RH non-condensing
Dimensions:	L 180mm x W 125mm x H 90mm
Connecting cable:	1.5m long with ALMEMO® connector programmed in ppb

Type (including manufacturer's test certificate)

Ozone sensor
including connecting cable 1.5m long
for O₃ measurements in air **Order No. FYA60003**

Option:

Pump in continuous operation
(fixed factory setting) **Order No. OY960003D**

Maintenance set :
new electro-chemical measuring cell,
pump replacement,
readjustment, including calibration certificate
Order No. ZB960003S