

PO2ES-103P oxygen industrial gas sensor

Key features:

Lead free sensor, RoHS conform, long life-expectancy, fully CO₂ resistant.

All characteristics are based on conditions at 25°C, 50% RH, 1013 hPa and gas flow ≥ 2.5 L/min..

Measurement Range:	0 to 100 Vol.%
Expected Operating Life:	~ 1,200,000 Vol.% h
Sensor Lifetime:	< 6 years @ ambient air, depending on application
Electrical Connector:	3-pin Molex®
Initial Output Signal:	9.0 to 14.0 mV @ dry ambient air
Output Signal Range:	5.0 to 15.0 mV @ dry ambient air
Response Time t₉₀:	< 10 s
Drift:	< 1 % per month, averaged across 12 months
Linearity Error:	0 to 2 Vol.% O ₂ : ± 0.1 absolute 2.1 to 100 Vol.% O ₂ : ± 0.5 relative
Repeatability:	± 1 % Vol. O ₂ @ 100 Vol.% O ₂ applied for 5 min
Zero Offset Voltage:	< 200 µV in 100 % N ₂ applied for 5 min
Operating Temperature:	0 to 45 °C
Pressure Range:	700 to 1250 hPa
Influence of Humidity:	- 0.03 % rel. O ₂ reading per % RH
Temperature Compensation:	NTC on sensor PCB
Recommended Load Resistor:	> 1 MOhm
Interferences:	100 Vol.% CO < 20 ppm O ₂ response 100 Vol.% CO ₂ < 20 ppm O ₂ response 100 Vol.% C ₃ H ₈ < 20 ppm O ₂ response 100 Vol.% H ₂ < 400 ppm O ₂ response 3000 ppm NO bal. N ₂ < 20 ppm O ₂ response 3000 ppm Ethanol < 100ppm O ₂ response 3000 ppm 1-Butanthiole < 100ppm O ₂ response 3000 ppm Dimethyl disulfide < 200ppm O ₂ response 2000 ppm H ₂ S bal. N ₂ < 500 ppm O ₂ response 1000 ppm Benzene bal. N ₂ < 20 ppm O ₂ response 500 ppm SO ₂ bal. N ₂ < 20 ppm O ₂ response
Weight:	approximately 25 g
Material in Contact with Media:	ABS, PVC, PPS, PTFE, stainless steel



.STORAGE CONDITIONS IN UNOPENED ORIGINAL PACKAGE

Temperature Range:	recommended: 5 to 30 °C maximum (≤ 10h):: - 20 to 50 °C
Humidity:	up to 100 % RH
Ambient Pressure:	600 to 1250 hPa
Shelf Life:	< 6 months recommended

We are here for you. Addresses and Contacts.

Headquarter Switzerland:

Angst+Pfister Sensors and Power AG
Thurgauerstrasse 66
CH-8050 Zurich
Phone +41 44 877 35 00
sensorsandpower@angst-pfister.com

Office Germany:

Angst+Pfister Sensors and Power Deutschland GmbH
Edisonstraße 16
D-85716 Unterschleißheim
Phone +49 89 374 288 87 00
sensorsandpower.de@angst-pfister.com

Office North America:

Angst+Pfister North America Inc.
10391 Brecksville Rd.
US-Brecksville, OH 44141
Phone +1 440 375-5212
info.apus@angst-pfister.com

Scan here and get an overview of personal contacts!



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