

Oxygen (O₂) - Industrial Sensor / Type P-41AGWD

Sensor designed to detect trace amounts of oxygen, digital sensor output signal (I²C-interface), temperature compensated signal, thread for easy gas adaptation, resistant to acid gases, hydrocarbons and hydrogen.

All characteristics are based on conditions at 25°C, 50% RH and 1013 hPa. All digital values are based on a gain factor of 8 (AD-Converter).



Measurement Range:	1 to 10,000 ppm O ₂
Overload:	> 5 Vol.%O ₂
Resolution:	15 Bit used (16 Bit processor, 1 Bit for algebraic sign)
Sensor Lifetime:	1 year, depending on ambient humidity and O ₂ concentration
Mechanical Mating Connector:	fits for M16x1 DIN 13 or 5/8-24 UNEF
Electrical Connector:	4-Pin Molex® (digital sensor output signal, I ² C interface)
Power Consumption:	< 1 mW @ 1 Vol.%O ₂
Supply Voltage:	+ 3.3V (verified), +5.0V (possible), > 5.5V (PCB damage)
Output signal:	0 to 32768 Digits
Initial Output Signal Range:	9200 to 12000 Digits @ 1 Vol.%O ₂ (gain factor AD-Converter 8)
Response Times (in operation):	< 180 s from 10,000 ppm down to 1,000 ppm < 10 min from 1,000 ppm down to 250 ppm < 5 h from 10 ppm down to <1 ppm
Linearity Error:	± 2 % of signal
Pressure Dependency:	partial pressure
Operating Temperature:	0 to 50 °C
Temperature Compensation:	Additional NTC on sensor PCB (sensor output signal is already temperature compensated)
Weight:	approximately 47 g
Material in Contact with Media:	PVDF, PTFE, stainless steel

STORAGE CONDITIONS IN UNOPENED ORIGINAL PACKAGE

Packaging:	sealed nitrogen flushed coated plastic bag
Temperature Range:	recommended: 5 to 25 °C maximum: 0 to 45 °C
Ambient Pressure:	600 to 1750 hPa
Humidity:	up to 100 % RH, non-condensing
Shelf Life:	< 3 months recommended

We are here for you. Addresses and Contacts.

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