

Product Specification of:

O₂ - Industrial Sensor / Type P – 21



.: KEY FEATURE .:

Sensor designed to detect trace amounts of oxygen

All characteristics are based on conditions at 25°C, 50% RH and 1013 hPa.

Measurement Range:	100 to 210.000 ppm O ₂
Expected Operating Life:	> 75,000 Vol.% h
Nominal Sensor Life:	2 years, depending on humidity and O ₂ concentration
Electrical Connector:	2 x slip-rings on PCB
Output Signal Delivery Condition:	200 µA ± 60 µA ambient air
Response Times (in operation):	< 180 s from 21 Vol.% down to 1000 ppm < 20 min from 21 Vol.% down to 250 ppm < 1h from 250 ppm down to 100 ppm
Operating Temperature:	-8°C to 50 °C
Temperature Compensation:	none
Linearity Error:	± 3% of signal (above 1000 ppm)
Pressure Dependency:	partial pressure
Material in Contact with Media:	PVDF, PTFE, stainless steel
Weight:	approximately 38 g



.: STORAGE CONDITIONS .:

Packaging:	coated plastic bag
Temperature Range:	recommended: 5 to 25 °C maximum: 0 to 45 °C
Ambient Pressure:	750 to 1250 hPa
Humidity:	up to 100 % RH
Shelf Life:	3 month

.: RELATED PRODUCTS .:

Product	Part-No.	Measurement Range	Output Signal	Other Specifics
O2-Sensor P-21	48 01 12	100 to 210.000 ppm	200 µA ± 60 µA	
O2-Sensor P-21A	48 02 12	100 to 210.000 ppm	200 µA ± 60 µA	resistance to acid gases, hydrocarbons and hydrogen
O2-Sensor P-31	48 04 12	100 to 210.000 ppm	315 µA ± 70 µA	high output
O2-Sensor P-41	48 01 13	1 to 10.000 ppm	460 µA ± 120 µA	
O2-Sensor P-41A	48 02 13	1 to 10.000 ppm	400 µA ± 120 µA	resistance to acid gases, hydrocarbons and hydrogen

This data sheet is subject to change without prior notice. [p-21-date-of-issue-2008-01.doc]

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