Product Specification of: O₂ - Industrial Sensor / Type P-31

.: 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: Expected Operating Life: Sensor Lifetime: Electrical Connector: Response Times (in operation):	100 to 210,000 ppm O ₂ ~ 75,000 Vol.% h 1 year, depending on humidity and O ₂ concentration 2 x slip-rings on PCB < 180 s from 21 Vol.% down to 1000 ppm < 20 min from 21 Vol.% down to 250 ppm < 1 h from 250 ppm down to 100 ppm
Linearity Error:	± 3 % of signal (above 1000 ppm)
Pressure Dependency:	partial pressure
Operating Temperature:	- 8 to 50 °C
Temperature Compensation:	none
Weight:	approximately 35 g
Material in Contact with Media:	PVDF, PTFE, stainless steel



.: STORAGE CONDITIONS :.

Packaging:	
Temperature Range:	

Ambient Pressure: Humidity: Shelf Life: air tight coated plastic bag recommended: 5 to 25 °C maximum: 0 to 45 °C 600 to 1750 hPa up to 100 % RH < 3 months recommended

.: RELATED PRODUCTS :.

Product	Part-No.	Measurement Range	Output Signal	Other Specifics
O2 - Sensor P-21	48 01 12	100 to 210.000 ppm	$200~\mu\text{A}\pm60~\mu\text{A}$	
O2 - Sensor P-21A	48 02 12	100 to 210.000 ppm	$200~\mu A\pm 60~\mu A$	resistance to acid gases, hydrocarbons, hydrogen
O2 - Sensor P-31	48 04 12	100 to 210.000 ppm	$315~\mu A \pm 70~\mu A$	high output
O ₂ - Sensor P-41	48 01 13	1 to 10.000 ppm	460 μ A \pm 120 μ A	
O2 - Sensor P-41A	48 02 13	1 to 10.000 ppm	$400~\mu A\pm 60~\mu A$	resistance to acid gases, hydrocarbons, hydrogen

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