Product Specification of:

O_2 - 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:	100 to 210,000 ppm O_2
Expected Operating Life:	~ 75,000 Vol.% h
Sensor Lifetime:	1 year, depending on humidity and O_2 concentration
Electrical Connector:	2 x slip-rings on PCB
Response Times (in operation):	< 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:	air tight 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
Shelf Life:	< 3 months recommended

.: RELATED PRODUCTS :.

Product	Part-No.	Measurement Range	Output Signal	Other Specifics
O_2 - Sensor P-21	48 01 12	100 to 210.000 ppm	200 µA ± 60 µA	
O_2 - Sensor P-21A	48 02 12	100 to 210.000 ppm	200 µA ± 60 µA	resistance to acid gases, hydrocarbons, hydrogen
O_2 - Sensor P-31	48 04 12	100 to 210.000 ppm	315 µA ± 70 µA	high output
O_2 - Sensor P-41	48 01 13	1 to 10.000 ppm	460 µA ± 120 µA	
O_2 - Sensor P-41A	48 02 13	1 to 10.000 ppm	400 µA ± 60 µA	resistance to acid gases, hydrocarbons, hydrogen

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