Product Specification of: O₂ - Industrial Sensor / Type P-41A

.: 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:	1 to 10,000 ppm O ₂			
Sensor Lifetime:	1 year, depending on humidity and O_2 concentration			
Electrical Connector:	2 x slip-rings on PCB			
Initial Output Signal:	460 $\mu A \pm 120 \ \mu A$ ambient air			
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:	none			
Temperature Coefficients:	$\begin{array}{ll} P_{coe}(x) = Ax^3 + Bx^2 + Cx + D \\ A = 2.01 \ E-06 \\ B = -2.60 \ E-05 \\ C = 1.70 \ E-02 \\ D = 5.61 \ E-01 \end{array} \xrightarrow{example:} signal @ 10^{\circ}C] = signal @ 25^{\circ}C x \ Pcce @ T[^{\circ}C] \\ signal @ (0^{\circ}C) = signal @ 25^{\circ}C x \ 0.561 \end{array}$			
Weight:	approximately 35 g			
Material in Contact with Media:	PVDF, PTFE, stainless steel			



.: STORAGE CONDITIONS :.

Packaging: Temperature Range:

Ambient Pressure:

Humidity:

Shelf Life:

sealed nitrogen flushed coated plastic bag recommended: 5 to 25 °C maximum: 0 to 45 °C 600 to 1,750 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	$200~\mu\text{A}\pm60~\mu\text{A}$	resistance to acid gases, hydrocarbons, hydrogen
O ₂ - Sensor P-31	48 04 12	100 to 210.000 ppm	$315~\mu A \pm 70~\mu A$	high output
O2 - 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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