

FCX-MP1000-Extern-FH-030-A-CH

Sauerstoffmodul

mit einem Zirkonoxydsensor

Oxygen module

with a Zirconia Sensor



Der Sauerstoffsensor FCX-ULL (0...1000 ppm) ist mit einer Elektronik verheiratet, um eine genaue Steuerung und Präzises Auswertung des Signals zu bekommen. Der FCX Sensor ist ein Durchflussgehäuse montiert und mit einem Kabel verbunden

The oxygen sensor FCX-ULL is electronically controlled via a state-of-the-art control board for the accurate concentration measurements of oxygen. The sensor is mounted in a flow housing and connected with the control board via a cable.

Merkmale

- 0 ...1000 ppm
- Kein Referenzgas nötig
- Lebensdauer > 1 Jahr im Luft
- Keine Nachkalibrierung nötig
- Ausgezeichnete Langzeitstabilität
- Kleine Leistungsaufnahme
- Analog: 4...20mA linear
- RoHS/Reach konform
- Hergestellt in der Schweiz

Features

- 0 ...1000 ppm
- No reference gas is needed
- Lifetime > 1 year in air
- No calibration needed
- Excellent longtime stability
- Low power consumption
- Analog: 4...20mA linear
- RoHS/Reach conform
- Made in Switzerland

Anwendungen

- Schutzatmosphäre/Prozessindustrie
- Additive Fertigung
- Stickstoff und Argon-Generatoren
- Prozessindustrie
- Lebensmittelindustrie
- Gaswarnanlagen
- Medizinische Geräte
- Laborgeräte
- Vakuumgeräte

Applications

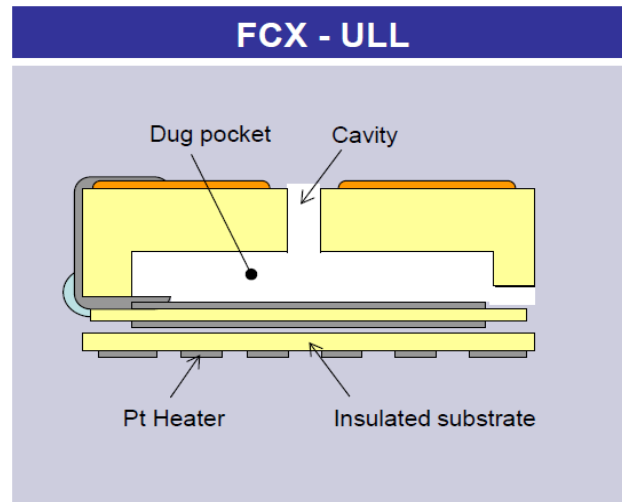
- Controlled atmosphere/Processing industry
- Additive manufacturing
- Nitrogen and Argon generators
- Process Industrie
- Food industry
- Gas security systems
- Medical units
- Laboratory equipment
- Vacuum equipment

Funktionsprinzip des Sensors

Zirkonoxyd Sensor nach dem Strombegrenzungsprinzip

Principle of functionality for the sensor

Limiting current type of a Zirconia oxygen sensor



Spezifikationen

Messbereich	0..1000 ppm O ₂
Genauigkeit	±50 ppm O ₂ (single point), < ±10 ppm O ₂ (continuous)
Ansprechzeit (Diffusion)	< 30 seconds (T ₉₀)
Ansprechzeit (Durchfluss)	< 8 seconds (T ₉₀)
Betriebstemperatur	-10°C...+50°C
Feuchte	0...85 %RH, non-condensing
Aufwärmzeit	3 min
Speisespannung	11.5-28 VDC
Leistungsaufnahme	< 2W
Ausgangssignal	4...20 mA linear 1 year in free air and with sensor voltage applied; > 10M ppm-hours
Sensorlebensdauer	
Durchflussrate	0,1...3 slm/min
Abmessungen	75 x 40 mm (PCB)
Gewicht	100g

Specifications

Measurement range	
Accuracy	
Response time (diffusion)	
Response time (flow)	
Operating temperature	
Humidity	
Warm-up time	
Supply voltage	
Power consumption	
Output signal	
Sensor lifetime	
Flow rate	
Dimensions	
Weight	

Die Angaben dieses Datenblattes enthalten die Spezifikationen der Produkte, nicht die Zusicherung von Eigenschaften. Technische Änderungen die dem Fortschritt dienen bleiben vorbehalten

The declarations on this data sheet area according to the specifications of the products, not an assurance of their quality. We reserve the right to make technical modifications in order to improve the product.

FCX-M product code																		
	FCX-				-					-				-		-		CH
Electronics																		
	linear output, analog or digital	M	C															
	logarithmic output, analog	M	L															
	linear output < 10.000 ppm, analog	M	P															
	linear output, digital	M	L	D														
Measurement range																		
	ppm/vol%																	
	0...1000 ppmO ₂					1	0	0	0									
	0...10000 ppmO ₂					10	0	0	0									
	0...1 %VolO ₂							0	1									
	0...5 %VolO ₂							0	5									
	0...25 %VolO ₂							2	5									
	0...95 %VolO ₂							9	5									
	customer specific				ex.			9	6									
Gas flow type																		
	forced flow diffusion									FLOW								
	external connected - sensor mounted on PCB, standard cable	cable length (030, 100, 200, 400 & 600 cm)								EXT-	STD							
	external connected - special flow housing, standard cable	cable length (030, 100, 200, 400 & 600 cm)								EXT-	FH							
	external connected - KF vacuum flange, HT cable	cable length (030, 100, 200, 400 & 600 cm)								EXT-	KF							
	external connected - high temperature < 200°C, HT cable	cable length (030, 100, 200, 400 & 600 cm)								EXT-	HT200							
	external connected - IP65 protection, high temperature < 200°C, HT cable	cable length (030, 100, 200, 400 & 600 cm)								EXT-	LEMO							
	external connected - high temperature < 300°C, special HT cable	cable length (030, 100, 200, 400 & 600 cm)								EXT-	HT300							
	external connected - M27 x 2 mm thread high temperature < 200°C, special HT cable	cable length (030, 100, 200, 400 & 600 cm)								EXT-	THD							
	customer specific	cable length (030, 100, 200, 400 & 600 cm)								EXT-	CUST							
Cable length																		
	standard 30 cm												030					
	standard 100 cm												100					
	standard 200 cm												200					
	standard 400 cm												400					
	standard 600 cm												500					
	customer specific												CUST					
Output signal																		
	4...20mA/2-wire															A		
	0-10 VDC/2-wire															V		
	RS232 (only MC-type)														RS232			
	RS485 (only MC-type)														RS485			
	Serial, logic level 3.3 V (MLD-type)															RTX		
	customer specific															CUST		

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