



Oxygen Analyzer





SILO2 SIL2-capable Oxygen Analyzer

SILO2 is a high-quality, low-maintenance analyzer with remote sensor, approved for hazardous area use. This SIL2-capable system is designed for OEM and end-users for inertization applications such as centrifuges, reactors, mills, glove boxes and vent headers. Using two continuous self-monitoring microprocessors, SILO2 delivers fail safe oxygen measurements in demanding safety-critical applications, requiring compliance with the requirements of IEC 61508 SIL2.





Pictured with OC-25M and OC-26M KF40 sensor options.

Highlights

- Market-leading solution for SIL-capable oxygen measurement
- Inbuilt analyzer and galvanic isolation barrier in one device
- Ease of integration for OEM applications
- Analog 4...20 mA output
- Sensor design for installation in Zone 0 hazardous area

Applications

- Additive Manufacturing
- Inerting of glove box and containment solutions
- Inerting control in API pharmaceuticals
- Powder handling
- Gas generation
- H₂ electrolyzers





PST NUTRON

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Technical Specifications

Sensors			
Solid State (S-S)	OC-25 / OC-25M	OC-26 / OC-26M	OC-200 series
Measurement Range	025 %O ₂		
Accuracy	Please see Accuracy Table below		
Output Resolution	0.01 %O ₂		
Lower Detection Limit (LDL)	0.02 % +/- 0.01		
Response Time (T90)	<20 seconds, typically 12 seconds		
Operating Temperature Range	-20 °C+50 °C (-13 F122 °F)		
Pressure Range	9501050 mBar _{abs}		
Life Expectancy (application dependent)	Up to 24 months		12 months
Humidity		095 %rh non-condensing	
Process Connection	2" Tri-clamp / Flow-through	KF40 flange	Via Oxy Extract:
			2" Tri-clamp / ANSI 150
Shelf Life	12 mg		Up to 6 months
Calibration Interval (application dependent)	612 months		
Analyzer			
Electrical			
Display	LCD		
Output Signal	420 mA		
Digital Communication	R\$485		
Relay Output Options	2 x configurable alarm relays, 1 x fault alarm relay, 1 x transistor		
Power Supply	24 V DC		
Relay Contact Outputs	Switching power max.: 62.5 V A resp max. 30 W		
RL1 / RL2 / Alarm	Switching voltage: Um 125 V AC / 110 V DC		
	Min. current 10 uA DC		
	Min. voltage 10 mV DC		
	According to IEC 947-5-1 resp. EN 60947		
Transistor Output (DO)	Switching parameters: < 28 V @ < 50 mA		
Intrinsically Safe Connection		Voltage Uo = 6 V DC	
	Current intensity Io = 0.2 mA		
	Power Po = 0.3 mW		
	Max. outer inductivity Lo = 1000 mH		
	Max. outer capacity Co = 10 μ F		
Maximum Power Consumption	Max. Outer capacity CO = 10 μ F 1.5 W		
Indicators	LCD and LED alerts on analyzer		
Mechanical			
Ingress Protection	IP20 enclosure		
Housing Material	PBT		
Mounting	35 mm din rail		
Cable Length	I.S sensor connection 5 meter / 10 meter / 15 meter		
Standards and certification			

ETL: UL-610101-1, EMC: EN 50270, ATEX Classification: Ex ia Ga IIC 1 G, Ex ia Da IIIC 1 D, ATEX Standard: EN 61000, UKCA

