



Oxygen Analyzer





SIL_O2

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.



SIL2 Capable



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







Oxygen Analyzer

Technical Specifications

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 r		12 months
Humidity	O) T : 1 (5)	095 %rh non-condensing	\". O. F. (
Process Connection	2" Tri-clamp / Flow-through	KF40 flange	Via Oxy Extract:
CI ICI:C	4.0		2" Tri-clamp / ANSI 150
Shelf Life Calibration Interval (application dependent)	12 months Up to 6 months		
Calibration Interval (application dependent) Analyzer	612 months		
Analyzei –			
Electrical			
Display	LCD		
Output Signal	420 mA		
Digital Communication	RS485		
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 μF		
Maximum Power Consumption	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			

Dimensions (mm)





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

Accuracy Table

CAUTION

Ntron Gas Measurement is part of the Process Sensing Technologies Group (PST). As customer applications are outside of PST control, the information provided is given without legal responsibility. Customers should test under their own conditions to ensure the equipment is suitable for the intended application(s).

We adopt a continuous development program which sometimes necessitates specification changes without notice. For technical assistance or enquiries about other options, please contact us here: oxygen@processsensing.com.