

## 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.



**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

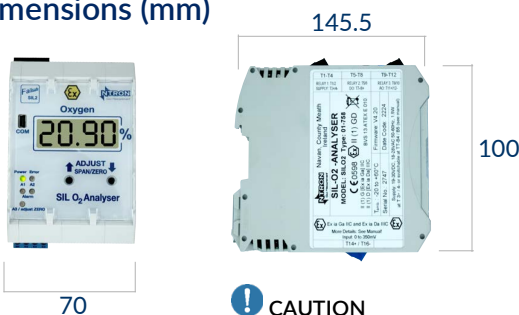
#### Applications

- Additive Manufacturing
- Inerting of glove box and containment solutions
- Inerting control in API pharmaceuticals
- Powder handling
- Gas generation
- H<sub>2</sub> electrolyzers

## Technical Specifications

Sensors			
Solid State (S-S)	OC-25/OC-25M	OC-26/OC-26M	OC-200 series
Measurement Range		0...25 %	
Accuracy		Please see Accuracy Table below	
Output Resolution		0.01 %	
Lower Detection Limit (LDL)		0.02 % +/- 0.01	
Response Time (T90)		<20 seconds, typically 12 seconds	
Operating Temperature Range		-20...+50 °C (-4...+122 °F)	
Sample Flow Rate (application dependent)	<b>Flow-through/extractive:</b> 100...500 ml/min (250 ml/min optimal) in a vented atmosphere <b>Direct insertion:</b> Up to 6 m/s		
Life Expectancy (application dependent)	Up to 24 months		12 months
Humidity	0...95 %rh non-condensing		
Process Connection	2" Tri-clamp / Flow-through	KF40 flange	Via Oxy Extract: 2" Tri-clamp/ANSI 150
Shelf Life	12 months		Up to 6 months
Calibration Interval (application dependent)		6...12 months	
Analyzer			
Electrical			
Display	LCD		
Output Signal	4...20 mA		
Digital Communication	RS485 (not SIL-capable)		
Relay Output Options	2 x configurable alarm relays, 1 x fault alarm relay, 1 x transistor		
Power Supply	24 V DC		
Relay Contact Outputs RL1 / RL2 / Alarm	Switching power max.: 62.5 V A resp max. 30 W 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 Switching parameters: < 28 V @ < 50 mA		
Transistor Output (DO)	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		
Intrinsically Safe Connection			
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 m/10 m/15 m		
Compliance			
cETLus: CAN/CSA-C22.2 No. 61010-1, UL-61010-1, EMC: EN 50270			
Hazardous Area Classification			
ATEX:			
II (1) G [Ex ia Ga] IIC			
II (1) D [Ex ia Da] IIIC T <sub>amb</sub> (-20 to +60 °C)			

### Dimensions (mm)



### Accuracy Table

Accuracy at standard temperature and pressure (STP)	
Range	
25 %	+/- 0.02 % @ 1 % +/- 0.01 % @ 0.1 %

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:  
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