

## 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

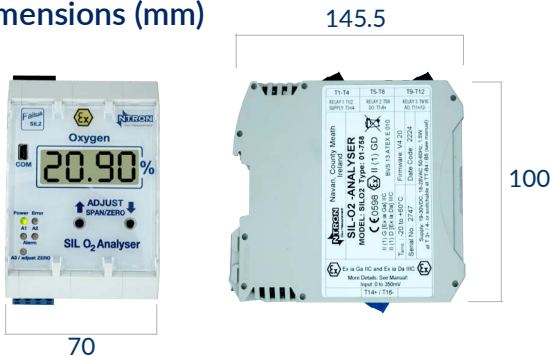
### Applications

- 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 %O <sub>2</sub>	
Accuracy		Please see Accuracy Table below	
Output Resolution		0.01 %O <sub>2</sub>	
Lower Detection Limit (LDL)		0.02 % +/- 0.01	
Response Time (T90)		<20 seconds, typically 12 seconds	
Operating Temperature Range		-20 °C...+50 °C (-13 F...122 °F)	
Pressure Range		950...1050 mBar abs	
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	
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 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	
Transistor Output (DO)			
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 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			

### Dimensions (mm)



### Accuracy Table

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



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](mailto:oxygen@processsensing.com).