

SILO2 LT

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, in compliance with the requirements of IEC 61508 SIL2.



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 to 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

Technical Specifications

LT Oxygen Sensor

Measurement range	
Accuracy	±2 % of reading at 20 °C
Response time (T90)	<10 seconds
Maximum sample gas temperature	+600 °C (+1112 °F)
Sample pressure	Vented to atmosphere during operation and calibration
Life expectancy (application dependent)	2 years
Humidity	0 to 95 %rh non-condensing
Calibration interval (application dependent)	Up to 12 months

Analyzer Electrical

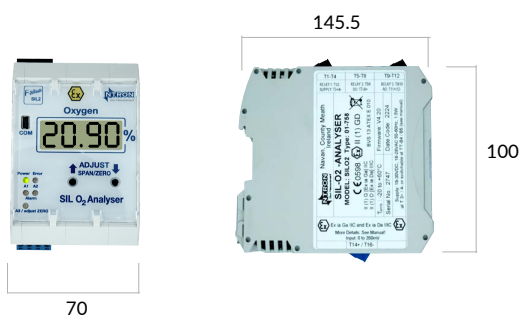
Display	LCD
Output signal	4 mA to 20 mA
Digital communication	RS485 (<i>not SIL-capable</i>)
Relay output options	2 x configurable alarm relays, 1 x fault alarm relay, 1 x transistor
Power supply	24 V DC

Relay contact outputs (RL1 / RL2 / Alarm)	According to IEC 947-5-1 resp. EN 60947
Switching power max.	62.5 V A resp. max. 30 W
Switching voltage	Um 125 V AC/110 V DC
Min. current	10 µA DC
Min. voltage	10 mV DC
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

Analyzer Mechanical

Enclosure rating	IP20
Housing material	PBT
Mounting	35 mm DIN rail
Cable	Length, 3 m, Ø 7 mm

Analyzer Dimensions (mm)



Sensor Dimensions (mm)

