NTRON
Gas Measurement

SIL O2
Oxygen Analyser

The Ntron SIL O2 Oxygen Analyzer has been designed to specifically address the OEM market's requirements for a low cost SIL2 rated oxygen analyzer for inertisation applications.

The SIL O2 Oxygen Analyser utilizes two continuous self-monitoring microprocessors.

The complete system (analyzer and sensor) meets the requirements of IEC 61508 SIL2. A fast response, high repeatability and no sensor drift make this analyzer a low maintenance solution that delivers reliable performance for safety critical, process control applications.

Applications

» Gas generation (oxygen / nitrogen)
» Additive manufacturing
» Pharmaceutical industries
» Industrial gas applications

Features

» Meets the requirements of IEC61598 SIL2
» Measurement range: 0 - 25% O_2
» Solid State Ceramic sensor technology
» Suited to harsh process applications
» LCD display
» Analogue 4 to 20mA output for retransmission of measured signal (SIL2 Rated)
» RS485 communications
» 24VDC power supply
» 2 Configurable alarm relays (SIL2 rated)
» 1 Transistor output
» 2 pushbuttons for span calibration
» Process Connection: KF-40 / Tri-Clamp Base / Flowthrough base

SIL2
Rated

A Company of

PST
PROCESS SENSING
TECHNOLOGIES

RECOGNIZED COMPONENT
ETL
Intertek
5013266

Technical Specifications

Performance	
Transmitter Model	**SIL O2**
Measurement technology	Solid State Ceramic sensor
Measurement range	0 to 25%
Output resolution (for %)	0.01%
Accuracy	±2% of reading at 20˚C
Response time (T90)	<12 seconds
LDL (Sensitivity)	0.01%
Temperature range	-20˚C to +50˚C
Pressure range	Vented to atmosphere during operation and calibration
Linearity	±1% of range
Life expectation	2 years
Humidity	0-95% RH non-condensing
Warm up time	15 seconds
Electrical Input / Output	
Power supply	24 VDC
Power consumption	Maximum load 160mA
Electrical connection	Screw terminals - quick disconnect. 2.5mm CSA Max
Signal output	4-20mA active
Digital output options	2 configurable alarm relays, 1 x transistor
Display format	% O_2
Visual indicators	LCD and LED alerts on device
Mechanical Specifications	
Dimensions	114.5mm (h) x 67mm (w) x 100mm (d)
Weight	Approx 300g
Mounting	DIn Rail
Environmental rating	IP 54
Housing material	PBT
Certification	
Complies with EMC Directive 2004 / 108 / EC. UL/ETL Certification Number: UL-61010-1	

Ordering information

Model	Range (O_2)	Sensor Type	Process Connection	Part No
SIL O2 107	0 - 25%	Solid State Ceramic: OC-25	Screw in 2" S/S Tri-Clamp	04-666
SIL O2 109	0 - 25%	Solid State Ceramic: OC-26	KF-40 Flange	04-908

Related Products

SIL O2
SIL Rated Oxygen
Analyser

SF82
Dew Point
Transmitter

Minox i
ATEX Rated
O_2 Transmitter

Gasenz
Ambient O_2
Monitor

Microx - OL
Online O_2
Analyser

Yellow Box
Portable O_2
Analyser

GazTrak
Portable oxygen &
moisture measurement

Technical Drawings

SILO2 ANALYSER

SIDE ELEVATION

FRONT ELEVATION

114.5

67

9-12 5-8 1-4

35 (nom)

100

13-16

KF40

84

33

55

99

50

59

KF40 FLANGE

ELECTROCHEMICAL SENSOR
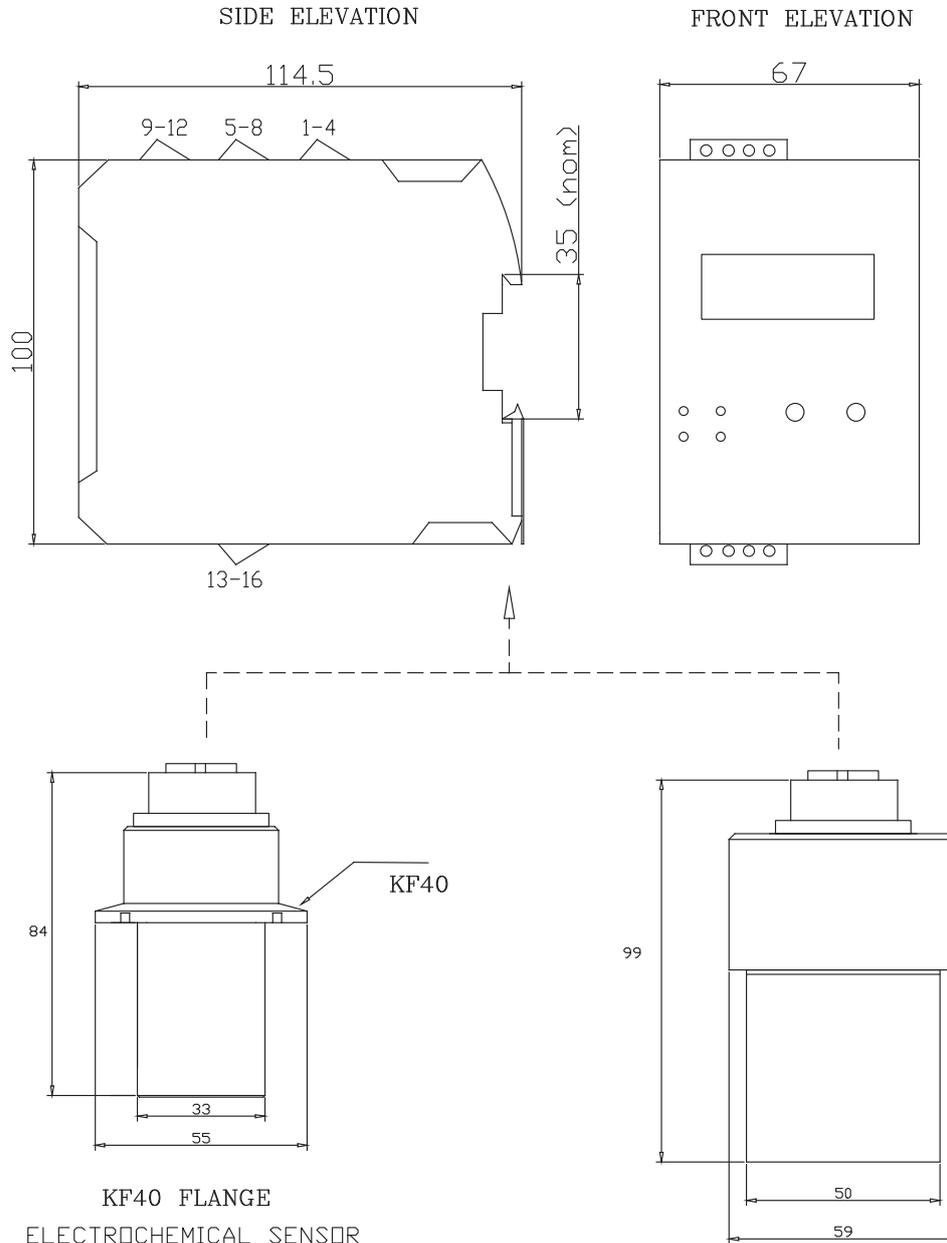
INTERNAL SCREW FITTING
ELECTROCHEMICAL SENSOR FOR USE WITH
NTRON'S TRI-CLAMP BASE OR FLOW THROUGH BASE