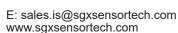




Ozone sensor Datasheet

The **SGX-403-20** is a premium industrial ozone sensor, ideal for portable and fixed gas detectors.







Performance

Sensitivity		1000 ± 400 nA/ppm
Measurement Range)	0 – 20 ppm
Response Time)	T90 < 40s
Maximum Overload)	50 ppm
Repeatability)	< ±2% O ₃ equivalent
Long-term output drift)	< 20% per Annum
Linearity)	Linear
Recommended Load Resistor)	10 Ω
Warranty)	12 months from date of dispatch

Operating Conditions

Temperature Range		-30°C to +50°C
Pressure Range)	800 to 1200 hPA
Operating Humidity Range)	15-90% RH
Storage Temperature)	0 to 20°C
Expected Lifetime)	> 24 months in air

Intrinsic safety data

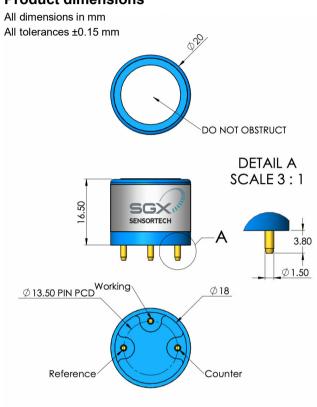
Maximum at 2000 ppm	0.3 mA
Maximum o/c Voltage	1.3 V
Maximum s/c Current	< 1.0 A

Cross-sensitivity data

•				
Gas	CONC.	SGX-4O3-20		
Carbon Monoxide	300 ppm	0 ppm		
Sulfur Dioxide	20 ppm	0 ppm		
Nitrogen Dioxide	20 ppm	15-20 ppm		
Nitric Oxide	50 ppm	<-1 ppm		
Ammonia	50 ppm	<5 ppm		
Chlorine	1 ppm	0.7 ppm		
Hydrogen Sulphide	15 ppm	<1 ppm		
Carbon Dioxide	5000 ppm	0 ppm		

Note: The output of the SGX-4O3-20 sensor is of a negative polarity compared to CO or H2S for example.

Product dimensions



Key features

- · high stability,
- fast response and recovery,
- robust environment performance,
- · cost effective

Important Notes

- All performance is based on conditions at 20°C, 50% RH and 1 atm, flow rate>150qcm/min, using SGX recommended circuitry.
- Sensor performance is temperature dependant; please contact SGX for temperature performance other than 20°C.
- Do not solder to the connector pins as this may damage the sensor and thereby invalidate the warranty.
- Details on recommended connector pins can be found in the Frequently Asked Questions within the Gas Sensor section of the SGX website.