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# EC4-20-SO2

# **Industrial Sulfur Dioxide Sensor**

(Application : Portable Gas Detectors)

# **PERFORMANCE**

FERFORMANCE	
Range	0 – 20 ppm
Maximum Overload	150 ppm
Sensitivity	400 to 600 nA/ppm SO <sub>2</sub>
Zero in Air at 20°C	< ±0.4 μA
Baseline Drift (-20°C to +40°C)	0 to 0.05 ppm SO <sub>2</sub> equivalent
Resolution	0.1 ppm SO <sub>2</sub>
Linearity	Linear Across Range
Response time (T <sub>90</sub> )	< 45 seconds
Long-term Output Drift	< 2% signal/month
Warranty	1 year
Bias	No Bias

### **OPERATING CONDITIONS**

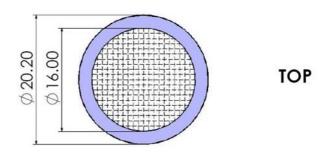
<u> </u>		
Temperature Range	-20°C to +40°C	
Operating Humidity	15 – 90% RH (non-condensing)	
Pressure range	90 to 110 kPa	
Operating Circuit	See Application Note 2	
Storage life	6 months in original packing	
Storage Temperature	0°C to 20°C	
Expected Operating Life	2 years in air	

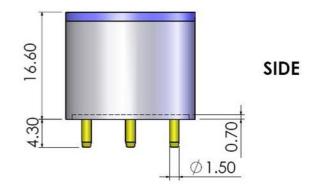
## PHYSICAL CHARACTERISTICS

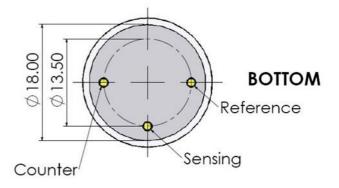
Weight	5 g
Orientation Sensitivity	None
Dimensions	See Outline

## **OUTLINE**

All Dimensions are in mm All tolerances are ±0.2mm







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#### **CROSS-SENSITIVITY DATA**

GAS	CONCENTRATION (ppm)	OUTPUT SIGNAL (ppm SO₂ equivalent)
Carbon Monoxide	300	<3
Hydrogen Sulfide	15	0
Nitric Oxide	35	0
Nitrogen Dioxide	5	<-5

<sup>\*</sup> See Important Notes

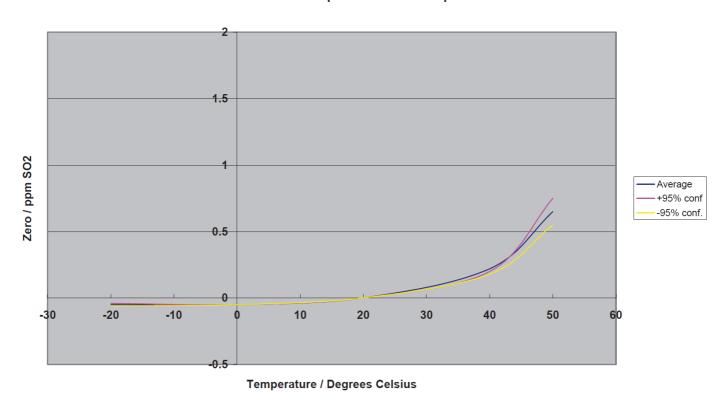
#### **IMPORTANT NOTES**

- 1.) Do not solder to the connector pins as this may damage the sensor and thereby invalidate the warranty.
- 2.) Details on recommended connector pins can be found in the Frequently Asked Questions within the Gas Sensor section of the SGX website.
- 3.) All performance specifications are based upon the following environmental conditions: 20°C, 50% relative humidity, 101kPa.
- 4.) Cross Sensitivity Data is for information only. Calibration is recommended with target gas as the accuracy of calibration and measurement cannot be ensured.
- 5.) The cross sensitivities are including but not limited to the gases stated in the table. It may respond to other gases.
- 6.) The cross sensitivities may fluctuate between ± 30% and may differ from batch to batch or across sensor's life time.
- 7.) The device is designed to be RoHS compliant.

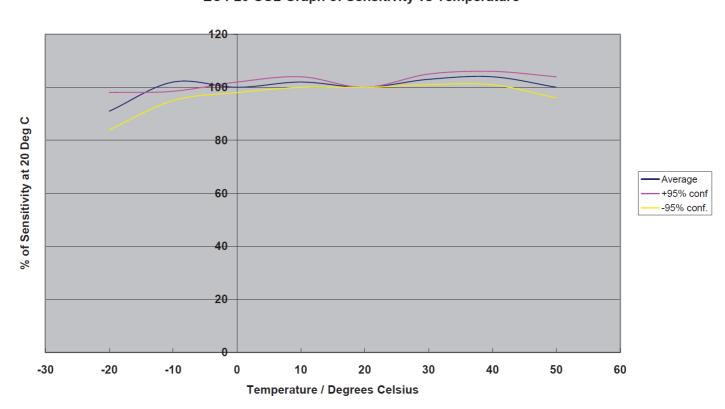


# **TEMPERATURE**

# EC4-20-SO2 Graph of Zero vs Temperature



EC4-20-SO2 Graph of Sensitivity vs Temperature



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