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SGX-VOX Datasheet

0-100% Oxygen (O_2) Sensor with on board temperature compensation. For ventilators.

PERFORMANCE

Output signal	9-13mV in Air*
Zero current (offset)	<0.1% O_2
T90 response time	< 5 seconds
T99.5 response time	<50 sec
Measurement Range	0-100% O_2
Linearity	Linear
Temp. Compensation (0-40°C)	< 2% O_2
Recommended Load Resistor	min 10k Ohms

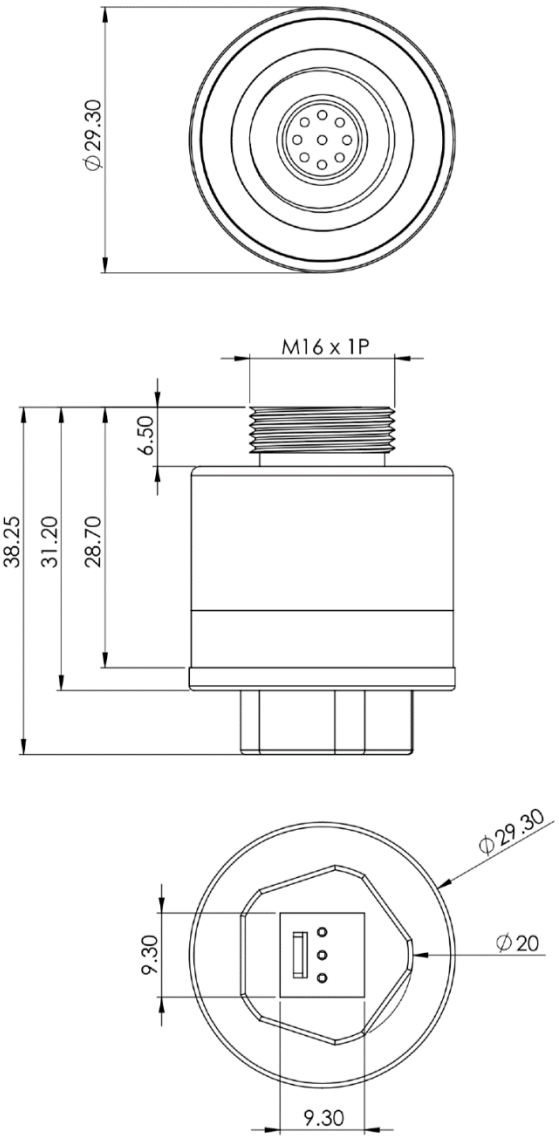
* measured in standard temperature and pressure (20°C, 50%RH and 1atm)

OPERATING CONDITIONS

Temperature Range	-20°C to +50°C
Pressure Range	500 to 2000 mbar
Operating Humidity Range	0% to 99% RH (non condensing)

OUTLINE

All dimensions are in mm
All tolerances are ±0.15mm



LIFETIME

Long Term Output Drift	<5% per annum
Recommended Storage Temp	0°C to 20°C
Expected Operating Life	375000% O_2hrs at 20°C

INTRINSIC SAFETY DATA

Max current in normal operation (pure O_2)	0.01 A
Max o/c Voltage (10 to 100% O_2)	0.9 V
Max s/c Current (10 to 100% O_2)	0.5 A

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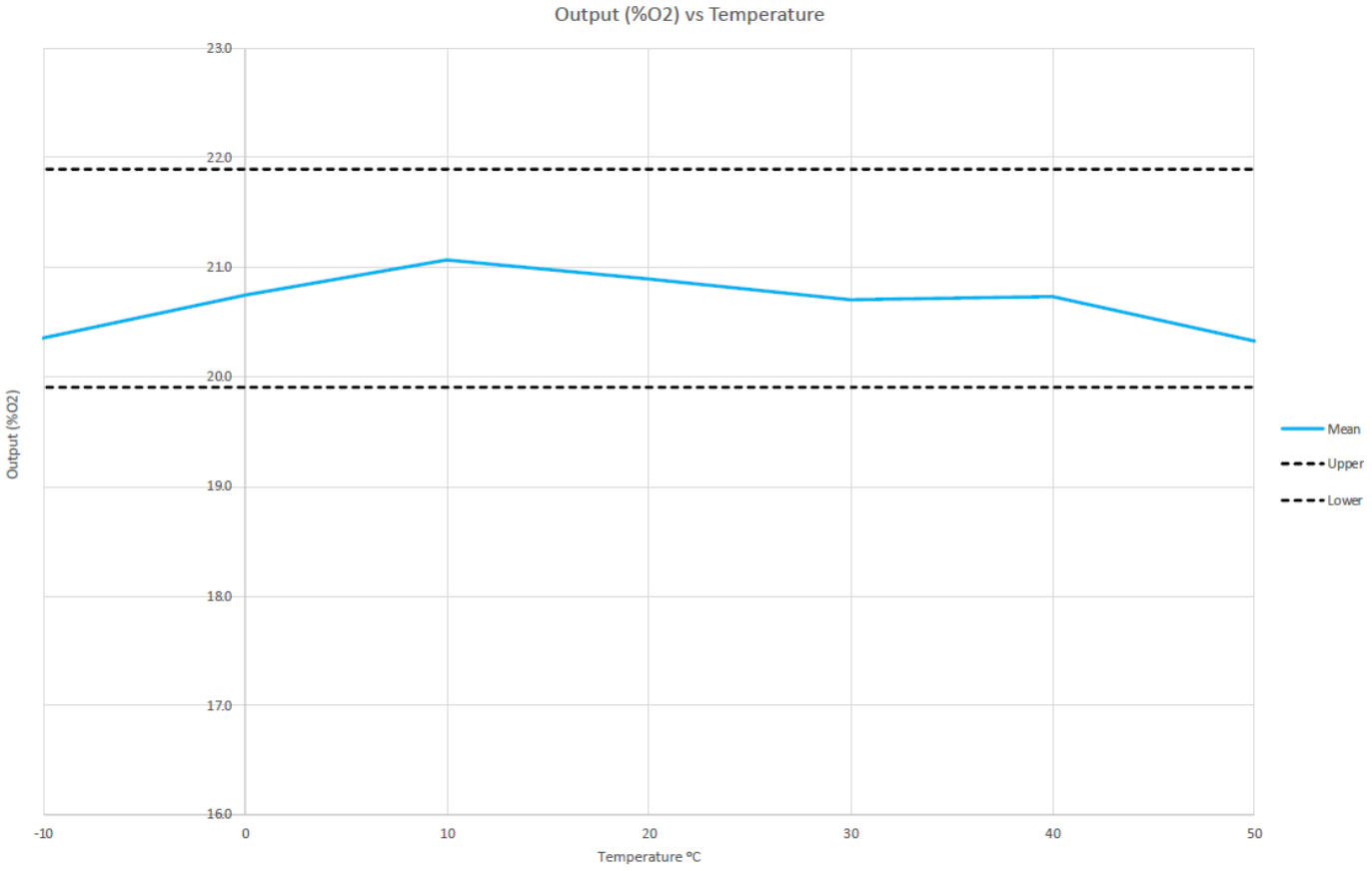

CROSS - SENSITIVITY DATA

Toxic gases at TLV levels will have no cross-sensitivity effect on SGX-VOX oxygen sensors. At very high levels (i.e. % levels), highly oxidising gases (e.g. ozone, chlorine) will interfere to the extent of their oxygen equivalent, but most other commonly occurring gases will have no effect.

ACID GASES

Acid gases such as CO_2 and SO_2 will be absorbed by the electrolyte and tend to increase the flux of oxygen to the electrode. This gives an enhanced oxygen signal of approximately 0.3% of signal per 1% CO_2. SGX-VOX sensor is not suitable for continuous operation in concentrations of CO_2 above 25%. The SGX-VOX sensor is not designed for use in applications where anaesthetic gases are present.

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