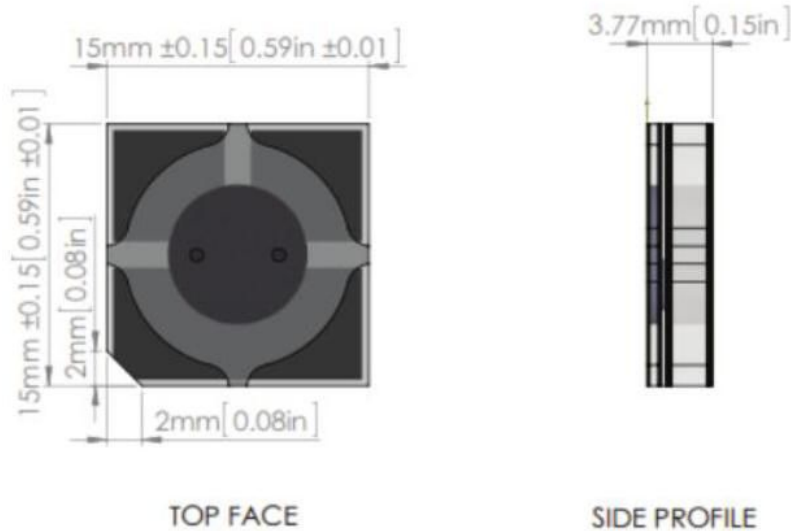


## Screen-Printed Ozone Sensor 20 PPM



### merit

- Small size, low profile (15x15x3.8mm)
- Long life (10 years life expectancy)
- Quick response (typically 15 seconds)
- Long-term stability (overload 50 ppm)
- Low power consumption (0 mW @ 0 mV bias)
- Individual calibration
- accord with ROHS

### apply

- Air quality monitoring
- industrial safety
- Air purification monitoring

### Brief Introduction

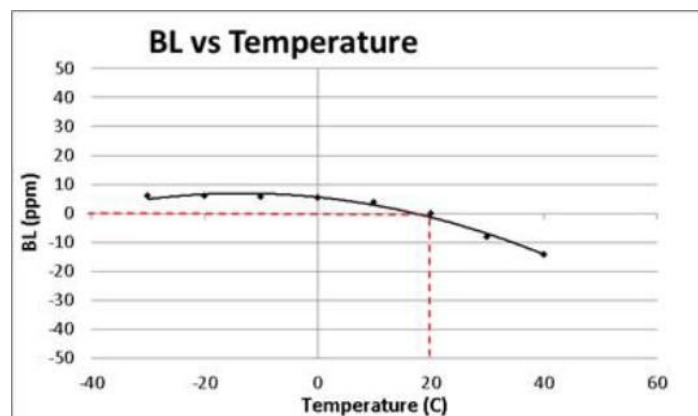
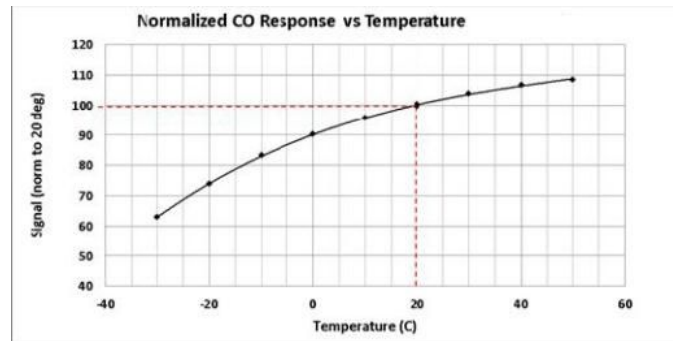
The Screen Printed Electrochemical Sensor Technology (SPEC Sensor™) revolutionizes the industry by enabling innovative applications in safety monitoring for both industrial and consumer sectors. These sensors deliver the performance of premium electrochemical components at a fraction of the cost. Their ultra-thin profile and compact design allow seamless integration into wireless, portable, and IoT-enabled solutions. Combining high performance, cost efficiency, and space-saving advantages, the SPEC Sensor is ideal for healthcare, environmental monitoring, industrial processes, and residential surveillance systems.

range	0~20 ppm
consistency	<3% Readings
response time	<30s (typically 15 s)
sensitivity	-30+/-5nA/ppm
Maximum overload (1 hour, reference EN20291-1)	50 ppm
life expectancy	> 5 years (10 years @ 23±3°C; 40±10% RH)
working temperature	-40~50°C (recommended-20~40°C)
Working humidity (non-condensing)	0~100%RH (recommended 15~95%RH)

## Temperature Effect

Temperature fluctuations can be predicted and compensated for with ease. The figure below shows the typical temperature characteristics of the 3SP\_CO\_1000 sensor under continuous relative humidity conditions of 40-50%. As evident from the data, these effects are highly consistent and repeatable, making it straightforward to implement compensation through either thermistors or firmware adjustments.

**Note:** Changes in the ozone sensor are different from this, but they can be easily compensated.



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