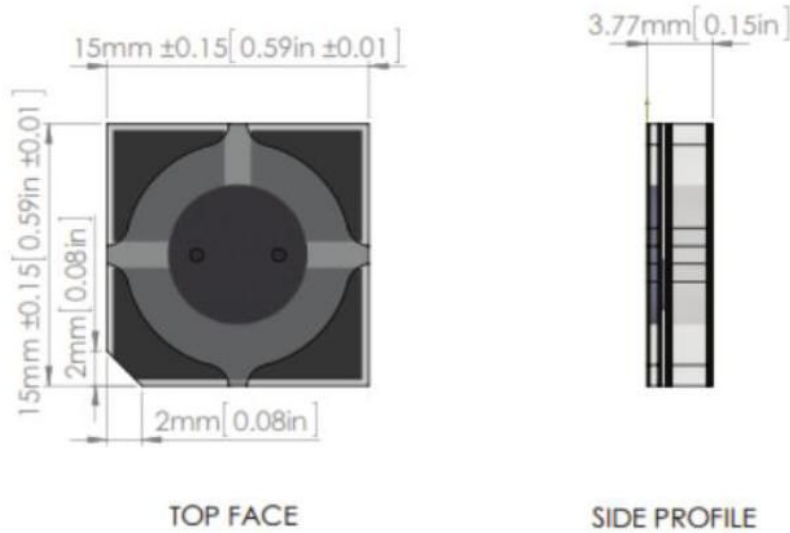


Screen-Printed Nitrogen Dioxide Sensor 20 PPM



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

SPEC Sensor™ screen printing electrochemical sensor technology has revolutionized the current state of the industry and led to the emergence of many new applications in user and industrial safety monitoring.

The SPEC printed sensor delivers the performance of premium electrochemical sensors at a fraction of the cost. Furthermore, its ultra-thin profile and compact design enable seamless integration into wireless, portable, and networked systems. Combining high performance, cost efficiency, and space-saving advantages, the SPEC sensor is ideal for monitoring in healthcare, environmental monitoring, industrial applications, and residential environments.

range	0~20 ppm
consistency	<3% Readings
response time	<30s (generally 15
sensitivity	s) 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 illustrates the typical temperature characteristics of the 3SP_CO_1000 sensor under sustained relative humidity conditions of 40-50%. As evidenced by the consistent and repeatable effects observed, implementing appropriate thermistors or firmware compensation proves straightforward.

Note: Variations in the NO2 sensor are different from this, but they can be easily compensated for.

