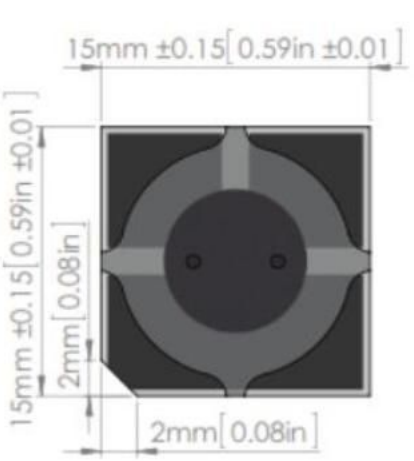
3SP Alcohol 1000

1000 PPM Screen Printed Alcohol Sensor



TOP FACE

SIDE PROFILE

chara-cteristic

- Small size, low profile (15x15x3.8mm)
- Longevity (10-year life expectancy)
- Quick response (usually 15 seconds)
- Long term stability (2000 ppm overload)
- Low power (0 mW @0 mV bias)
- Individual calibration
- Complies with ROHS certification

apply

- Law enforcement of breathalyzer
- A breathalyzer test
- Portable breathalyzer
- Personal breathalyzer

Description

Screen-printed electrochemical sensors have revolutionized current technological standards, offering innovative applications for consumer and industrial safety monitoring. These sensors deliver superior performance at competitive prices. Their ultra-thin design enables seamless integration into wireless, handheld, and networked systems. With their high performance, cost-effectiveness, and compact size, these sensors stand out as ideal solutions for health, environmental, industrial, and residential monitoring needs.

measuring range	0 - 1000 ppm
consistency	<Read 3% of the Reading
response time	<30s (usually 15 seconds)
sensitivity	14 +/- 5 nA/ppm
Maximum overload (1 hour, according	2000 ppm
to EN20291-1) expected service life	> 5 years (10 years @ 23±3°C; 40±10% RH)
operating temperature range	-40-50℃ (-20-40℃ recommended)
Working relative humidity-non-condensing	0 -100% RH (15-95% recommended)

3SP_Alcohol 1000

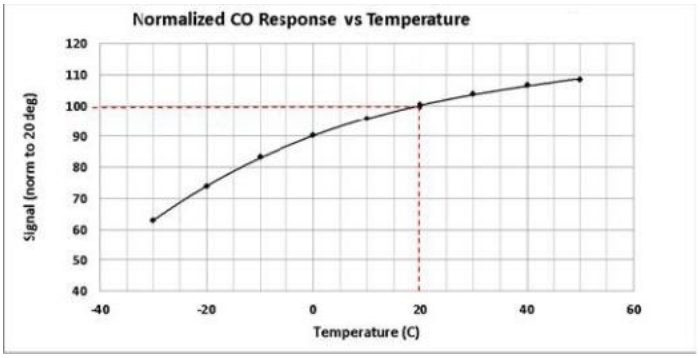
cross sensitivity

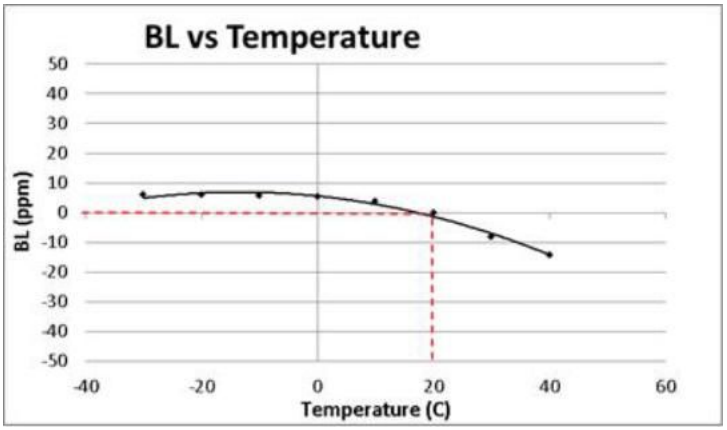
Gas/steam	potency	Typical response PPM alcohol <1
Carbon dioxide methane	5000 ppm 3000 ppm	< 1
hydrogen	100 ppm	31
Methanol,	200 ppm	< 1
isopropanol, acetone,	200 ppm	1.3
ammonia,	200 ppm	< 1
nitrogen	100 ppm	< 1
dioxide	10 ppm	< 1
hepatic gas	5 ppm	< 1
carbon monoxide	30 ppm	30

Temperature Effect

Temperature fluctuations have predictable and easily compensatable effects on sensor signals. The chart below demonstrates the typical temperature characteristics of the 3SP_CO_1000 sensor under constant humidity (40-50% RH). These consistent and repeatable temperature characteristics can be easily compensated for using appropriate thermistors or firmware.

Note: Temperature characteristics of alcohol sensors may vary, but are easily compensated for.





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